



Founded in 1947

QCWA Journal

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QCWA National Nets

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2000E on 7035

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Cover: The Year 2001 Officers and Board of Directors at the annual convention in Toronto Canada. Photo by Jim Walsh W7LVN.

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THOSE WHO HAVE SERVED

Past Presidents

John DiBlasi, W2FX (SK)	1947 - 1964
Earl R. Thomas, W2MM (SK)	1965 - 1968
Clarence Seid, W2KW	1969 - 1971
Barry Goldwater, K7UGA (SK)	1972 - 1973
Frank A. Gunther, W2ALS (SK)	1974 - 1977
Harry S. Gartsman, W6ATC	1978 - 1981
Stuart Meyer, W2GHK (SK)	1982 - 1985
Leland Smith, W5KL	1986 - 1989
Harry Dannals, W2HD	1989 - 1994
Lew McCoy, W1ICP	1994 - 1996
John Kelleher, W4ZC	1996 - 1998

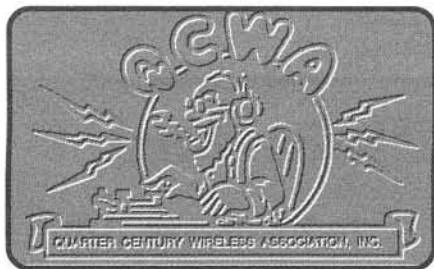
Executive Secretary/General Manager

Ralph Barber, W2ZM (SK)	1955 - 1964
Gus Girona, W2IE (SK)	1965 - 1973
Ethel Smith, K4LMB (SK)	1974 - 1976
Ted Heithecker, W5EJ (SK)	1976 - 1991

The QCWA Journal

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The Quarter Century Wireless Association

The Quarter Century Wireless Association, Inc. was founded December 5, 1947, as a noncommercial association of radio amateurs organized for the promotion of interest in Amateur Radio communication and experimentation, for the establishment and advancement of the radio art and of the public welfare.

QCWA is an incorporated association without capital stock chartered under the laws of the State of New York, and is a tax exempt 501(C)3 organization under the Internal Revenue Code of 1986.

Its affairs are governed by a President, Vice President, Secretary, Treasurer and a Board of Directors, whose voting members are elected every two years by the general membership.

In order to qualify for membership in QCWA one must have demonstrable proof of having been first licensed as an Amateur Radio operator at least 25 years prior to application for membership and must be currently licensed.

Membership inquiries and general correspondence should be addressed to the business office at 159 E. 16th Ave., Eugene, OR 97401-4017 USA. Telephone, 541-683-0987. Fax, 541-683-4181.

From the President

Gary R. Harrison, KØBC



One of the nicest things that I get to do as President is presenting the QCWA Honor Awards. We have six different Honor Awards that are available to recognize deserving people. While most of the awards are reserved for QCWA members there is one available for a person that is not a member. The awards have certain requirements to determine who may receive them. The requirements, in general, are outstanding contribution to QCWA, amateur radio or to communications for the public.

The President appoints a committee to consider nominations for the Honor Awards. Nominations may come from the Officers, Directors, Chapters or any member. A nomination for one of these awards should be sent to Headquarters with a written explanation of why you think this person should receive an award. The committee will review the material submitted and then make a recommendation to the Board of Directors. Because of the desire to keep these awards prestigious it is possible that there will not be an award of any kind presented during a year.

We would like to present any Honor Awards that are to be awarded in one year at the QCWA Convention. This year at the Toronto Convention Banquet we recognized three people with Honor Awards. We presented the Distinguished Service Award to Duke Knief, W4DK for his efforts on behalf of QCWA. I also presented the Presidential Award to Riley Hollingsworth, K4DZH and Joseph Casey, KB1YX for their efforts on behalf of amateur radio with the Federal Communications Commission.

Here are the six Honor Awards issued by QCWA: Hall of Fame, Roll of Honor, John DiBlasi, Distinguished Service Award, Member of the Year and Presidential. If you know of a person that you think deserves the recognition of one of QCWA's Honor Awards, please send a nomination to Headquarters.

Call for Papers

As usual, the Editor is appealing for articles. Also interesting photographs, short (or long) anecdotal stories, and "How to do" articles. Don't be discouraged if something is not published immediately since each Journal issue has certain priority information that must be addressed. Then space available determines the articles that will be included.

As of this issue, the Journal repository of articles is nearly empty. Send 'em if ya got 'em.

Gerry

75 year Awards

Bob Hisamoto, KL7AM



Bob Hisamoto, KL7AM, the founder of the Japanese Amateur radio League (JARL), was awarded his 75-Year Plaque at the Northern Lights Chapter family picnic held in the Hillside District of Anchorage Alaska.

Bob was presented his plaque by Jim Tvrđy, KL7CDG, President of Chapter 92. This distinguished Amateur Radio operator (age 92) and his wife drove 600 miles round trip by Volkswagen bus down from Fairbanks, Alaska to receive this momentous award.

**Check
This
Out**



Special Event Station - February 10-11

Dakota Chapter 102, WØDAK, will have a Special Event Station between February 10 and 11, 2001 to commemorate their chapter's 24th anniversary. General portions of the 10-80 meter bands will be used. Times will be from 1500Z to 0300Z each day. Certificate will be available by sending QSL card and large SASE to Frank Shaw, NUØF, 118 E. Van Buren, Rapid City, SD 57701..

QCWA HISTORICAL MATERIAL WANTED

It is important that we preserve any or all material pertaining to the history of the QCWA for posterity. If you have items to contribute to the historical record of the QCWA organization, please contact:

Historian Wesley Randles, W4COW
6002 N. Fremont
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Ph: 813-870-0867
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The Field Trip

By Bob Hafstrom W6KNK

The Electrical Engineering students at the University of Wisconsin took two field trips each year. The junior class went to Milwaukee, Wisconsin and the senior students went to Chicago, Illinois. Besides being very educational the trips were a pleasant break.

Often, there were incidents that were not planned by the professors or the host managers. One year after a good lunch, the students visited a large electric power plant. All went well while the students were exploring the facility. It was when the plant engineer invited the group to an educational lecture complete with a lot of slides. About five minutes into the lecture about 90% of the students fell asleep. The darkened room, the ample lunch and the night before probably were to blame. The room ventilation also could have been a factor.

The field trip in one of the years just after the World War II had an incident that occurred in the visit to WTMJ FM, the Milwaukee Journal station. Frequency modulation was an interesting new concept. Students and faculty members alike were anxious to visit an FM station. The visit was going along well until some one noticed that the station was carrying a program normally identified with WGN which was owned by the Chicago Tribune,

The telephone line from the studio to the FM station wasn't completed. A radio receiver tuned to receive WTMJ; the Milwaukee Journal's AM station was modulating the FM station. One of the students noticed the radio, didn't like the program and tuned the radio to WGN. The station management was upset. The obvious action that the faculty advisors decided to take was to leave as soon as the group could be gathered.

As the bus left the parking lot it pulled down the antenna on which the radio receiver was getting WTMJ.

This incident probably was forgotten by some and embellished by others. I still have a vivid memory of it because I was one of the professors.

Harry Snyder, W7HC - Silent Key

Harry Snyder, W7HC (ex WØNVE, WØRN) QCWA #7448, Carefree, Arizona became a Silent Key Friday, July 21, 2000. Harry was first licensed in 1946 at the age of 19 as WØNVE. He served in the Merchant Marine as a radio operator during WW II. After the war he had a TV repair business along with a Motorola 2-way radio service station. Before moving to Arizona from Fremont, Nebraska Harry owned and operated three broadcast radio stations. Harry was active in QCWA as Vice President of Chapter 16 as well as being a 50 year member of the ARRL. Many Hams benefited from his extensive knowledge in electronics and he was always ready and willing to help.

Lew "Mac" McCoy W1ICP Silent Key

Amateur Radio legend and former ARRL Headquarters staff member Lew "Mac" McCoy W1ICP, of Mesa, Arizona, died July 31 following a lengthy illness. He was 84.

As a member of the ARRL Headquarters staff from 1949 until 1978, McCoy gained a national and international reputation primarily for his articles in QST and his early work to combat TV interference. "He became a hero of all the Novices and beginners because his stuff was so down to earth and easy to read," said retired ARRL Communications Manager George Hart W1NJM, a good friend.

ARRL Executive Vice President David Sumner K1ZZ, described McCoy as "one of a kind" and "versatile." Sumner said McCoy "left his mark on future generations of amateurs as QST's 'Beginner and Novice' editor." When FM repeaters came along, Sumner said, McCoy made it his mission to educate his ARRL colleagues about their potential.

An ARRL Life Member, McCoy was first licensed as W9FHZ and later became W0ICP. He arrived at ARRL Headquarters in 1949 to fill the job of assistant communications manager for phone. He went on to work in the Technical Department where he was able to take advantage of his ability to explain technical concepts in simple terms.

McCoy earned a reputation as a tireless traveler and goodwill ambassador for Amateur Radio. He first started hitting the road in the early 1950s after TVI had become troublesome for amateurs and soon became the League's TVI expert. McCoy toured the country demonstrating TVI cures for hams and TV service personnel alike.

ARRL Lab Supervisor Ed Hare, W1RFI, credited McCoy with providing the foundation for the ARRL's current RFI expertise in helping hams to deal with interference to consumer equipment and interference to hams from other sources. McCoy also was well known for one of his projects, "The Ultimate Transmatch," an antenna tuner he described in a July 1970 QST article.

After leaving the ARRL Headquarters staff, McCoy continued as a QST contributing editor. He subsequently was a major contributor to other Amateur Radio publications, including CQ.

During his active years on the air, McCoy was an avid DXer with more than 300 countries confirmed. More recently, he was active in the Quarter Century Wireless Association, had served as QCWA president and a board member and had just been elected again to the QCWA's Board of Directors, something his daughters never got to tell him before he died.

McCoy's first wife, Martha, died in 1998. Survivors include his wife, Clara Gibbs McCoy, and his daughters, Marsha Ashurst W1HAQ, and Sharon Armann, ex-WN1GQR, as well as grandchildren and great-grandchildren.

In accordance with McCoy's wishes, there will be no funeral. The family is planning a memorial service for McCoy in early December.

In lieu of flowers, the family is requesting memorial donations in Lew McCoy's name to Hospice of the Valley, 1510 E Flower St, Phoenix, AZ 85014-5656. Condolences may be sent to the family care of Marsha Ashurst, PO Box 2260, Lakeside, AZ 85929.

- from ARRLX013

QCWA Board issues two resolutions at convention

RESOLUTION

WHEREAS: Lewis G. McCoy, W1ICP, having served as President, Vice-President, President Emeritus, and Director of the Quarter Century Wireless Association;

WHEREAS: Lewis G. McCoy, W1ICP, epitomizing the spirit of amateur radio through his experimentation and writing, receiving the QCWA Hall of Fame Award in 1996 for his Technical Contributions to Amateur Radio;

BE IT RESOLVED THAT: The Quarter Century Wireless Association Board of Directors, meeting at the 2000 Convention in Toronto, Ontario, Canada, on October 12, 2000, voted unanimously to express profound Appreciation of Lewis G. McCoy, W1ICP, for his contributions to amateur Radio in general and for his service to the Quarter Century Wireless Association.

Gary Harrison, KØBC
President
Quarter Century Wireless Association

RESOLUTION

WHEREAS: Herbert J. Gleed, Jr., W6FQ, net control of the Quarter Century Wireless Association's Sunday member net for many years, Recipient of the QCWA Member of the Year Award in 1982, And the QCWA Distinguished Service Award in 1990,

WHEREAS: Herbert J. Gleed, Jr., W6FQ epitomized the spirit of amateur radio through his devotion and support of the net activity;

BE IT RESOLVED THAT: The Quarter Century Wireless Association Board of Directors, meeting at the 2000 Convention in Toronto, Ontario, Canada, voted unanimously to express profound appreciation to Herbert J. Gleed, Jr. for his contributions to the Quarter Century Wireless Association

Gary Harrison, KØBC
President
Quarter Century Wireless Association



Gen. Manager's Report

Jim Walsh, W7LVN

Once again it is score time. Our scanning has now reached 24,000 and it looks like we can see the light at the end of the proverbial tunnel. You have no idea how satisfactory it is to reduce all those file drawers to several CD ROM disks. Better than that, however, the old applications are getting somewhat fragile and so now that part of our history is better preserved.

Good news, the Year 2000 Directory is now on our home page. Go to www.qcwa.org and when that page is visible select "WHO" and at the bottom of the page there is a label for the Directory. Remember this has to be read by the Acrobat program. It works very well. On our home page is a link so that you can download the Acrobat file from Adobe's site. No charge!! The site has already been modified to include the current Board of Directors, which you can find in Section 1. In Section 3, the Scholarship section, it includes this years awards.

Have you tried our "CARE" package at an amateur radio hamfest and advertised your Chapter and Quarter Century Wire-less Association, Inc.? This is a package of supplies, some of which you sell for us, and lots of applications, T-Shirt order forms, QSL and NameTag order forms. Everything that you will need at the table. Believe me, it certainly helps and presents a good image to prospective members when you have the right materials to operate the booth.

Jim, W7LVN

Coming Events

**45th Annual QCWA QSO Party
April 7 and 8, 2001**

Memorial Scholarship Fund Donations

NAME	HONORING
Chapter 10	K8TSO, K8AGO & W8IAC
Eugene A Berg	
Jan Scheuerman	N2XJ
Chapter 64	W1HX
Chapter 38	W5SME
Chapter 108	
William H Kennedy	
Leo Meyerson	W7HC
Chapter 120	W4OMG
Ralph Hasslinger	N2XJ
Leo Meyerson	
Chapter 49	W9UIX & W4DXI
Chapter 202	W1ICP
Chapter 41	W1ICP
Chapter 181	W2ADT

QCWA Endowment Challenge

Chapter 31

John J Kelleher

GOLDWATER K7UGA CALL SIGN RE-ISSUED

The famous K7UGA call sign formerly held by the late US Sen. Barry Goldwater has been re-issued to his club, the Central Arizona DX Association. The FCC granted CADXA's request for K7UGA on October 24.

The call sign came up for grabs this fall after the mandatory two-year waiting period following the cancellation of Goldwater's amateur license ended. Goldwater died May 29, 1998. CADXA President Gary Capek, K8BN, says the club, which traded its N7KJ club station call sign for K7UGA, plans to keep the call sign active.

Goldwater's family has donated his amateur equipment, memorabilia and furnishings to the Arizona Historical Society's museum in Tempe. Capek says he's met with representatives of the museum—which plans to reconstruct Goldwater's ham shack as an

exhibit—and says CADXA will cooperate in making the call sign available for special events at the museum.

The Goldwater ham shack exhibit still is in the planning stages, and the museum has been soliciting donations from the amateur community to construct the exhibit.

"I have agreed to work with them when they begin to install the old Goldwater shack items in the next year," Capek said.

The K7UGA station equipment and console were removed last May from the Goldwater home in Paradise Valley, Arizona, which has been sold. Goldwater's station and massive antenna system were used to complete thousands of phone patch messages for troops during the Vietnam War.

-ARRL Letter

The 2001 QCWA Convention is Going Cruising

With major changes in format, content and location, the Quarter Century Wireless Association's International Board of Directors approved the request that the 2001 QCWA Convention evolve around an eight-day Eastern Caribbean cruise hosted by Chapter 162. The cruise will be aboard Holland America's MS Westerdam departing Fort Lauderdale, Florida on Saturday, October 27, 2001 at 5 PM. The ship's itinerary includes port stops at Nassau, Bahamas; San Juan, Puerto Rico; Philipsburg, St Maarten; St John & St Thomas, USVI; and a day at a private island paradise on Half Moon Cay, Bahamas, before returning to Ft Lauderdale the following Sunday morning.

We are looking on this as an opportunity to combine the Convention with a very memorable vacation. Folks joining us on the cruise will be mailed a complimentary video of their eight-day adventure, have shopping excursions on the duty free islands of St John and St Thomas just before Christmas (depending on your gift list, your discounted shopping may pay for most of the trip), and one of the most exciting weeks of your life. Plan on taking family members and/or friends to share your week of wonderment. For those not wishing to cruise by themselves or share a cabin with an unknown roommate, this is a very nice way to spend quality time with a grandchild.

White Travel Service, Inc. in West Hartford, Connecticut will book the cruise and make any additional travel arrangements you may require. I am working with Edythe White at the travel service. She may be reached by calling 1-800-547-4790 and reference the QCWA (Ham Radio Convention) Westerdam, October 27, 2001.

The table shows the QCWA rates and stateroom categories for the October 27, 2001 sailing:

All rates are per person, based on double occupancy and are subject to availability at the time of booking. Port charges, air transportation (if requested), air taxes and government fees are additional. Other stateroom categories can be requested and are subject to availability. Rates for single, triple and quad occupancy are available on request. Tipping, normally a last day cruise expense, "is not required" on Holland America ships. Holland America states, "you are our guest, it our goal to make sure you receive the finest service possible. Our "tipping not required" policy ensures that the professional and gracious service you receive on board is truly sincere, and that we are dedicated to providing you the most relaxed cruise vacation, not simply performing service in return for tips."

Normally on other cruise line ships the suggested tips would be three dollars per day per person for the waiter and room steward plus two dollars for the assistant waiter or \$64 a person for the eight day cruise. One can view this as an additional savings, or an opportunity to gain financial protection against having to cancel the trip. At the time of booking with White Travel Service, the agent will discuss various travel insurance programs. Policies can be purchased that provide protection in the event of trip cancellation, trip interruption, personal injury or damage to property. The rate is about

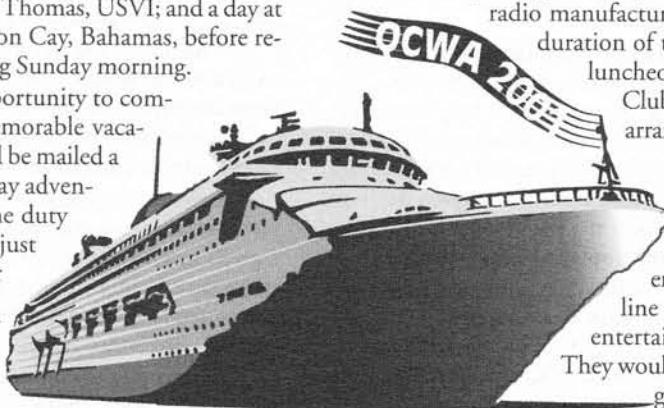
\$6.50 per \$100 cost of the total cruise package. If you book a cruise only cabin for \$800, your cancellation insurance will be \$52. I mention this in the event you or a close family member, near the time of departure, may experience a health problem that might force you to cancel the trip.

There are a number of additional cruise perks that we hope to include for your enjoyment. At this writing we, have confirmed an on board ship complimentary cocktail party; are working with a radio manufacturer to set up a HF station for the duration of the cruise; are trying to arrange a luncheon with the Virgin Island Radio Club on St Thomas; and are striving to arrange for a cash rebate on each cabin.

There are a number of entertainers that hold Amateur Radio Licenses. Depending on time and the availability of these entertainers, we may be able to have the cruise line book their services for the ship's entertainment during the evening hours. They would be available to socialize with our group during the day.

There are still many details to work through, but one thing is for certain; this will be one of the grandest adventures you have ever enjoyed. Just ask anyone who has cruised before, and plan to join us.

Questions and requests for additional details can be directed to Larry McCalvy, WA9JMO, by telephone at (262) 639-7327 or by email to wa9jmo@wi.net.



Category	Price	No. Reserved
N - Inside room, two lower beds	\$649	2
LL - Inside room, two lower beds	\$679	8
L - Inside room, two lower beds	\$699	10
K - Inside room, two lower beds	\$719	10
G - Outside room, one double bed, one sofa bed	\$809	10
F -- Outside room, one double bed, one sofa bed	\$829	10
E - Large outside room, two lower beds	\$869	20
D - Large outside room, two lower beds convert	\$909	20
C - Deluxe outside, two lower beds convert	\$979	10

CQ DX



Chip Margelli, K7JA, DX Editor • 6652 Cerulean Ave. • Garden Grove, CA 92645

Propagation

I hope that everyone is enjoying the great conditions we're experiencing!

Obviously, we're all thinking "it's now or never," and there is some truth in that comment. But let's all remember that the "peak" of a sunspot cycle is something that is attained after a rapid run-up, and the descent from the peak is a gradual path, one that will bring us several years of great DX opportunities.

Still, let's be sure not to miss the opportunities which uniquely present themselves at these times. Be looking for every possible DX path on six and ten meters, as these will be at there very best over the next year. Look especially for 10-meter long-path openings between North America and Africa/Middle East, and between Europe and the Pacific regions. If ten is a little punk on a given day, try 12 and 15 meters, as they may be near the MUF (Maximum Usable Frequency), where signals often display a sharp peak.

Many of you have observed "outlaw" stations on ten meters when the band is open. The only reason these bandits are in our bands is because we are not! If you're not hearing any DX, get on and call CQ. If you don't get an answer, call CQ again, and again if necessary. The best defense for our bands is a good offense, and a bunch of Hams making QSOs is the best way to maintain control of our bands.

Enjoy!

Thinking About Your DX Antenna(s)

Many of us are moving to a new location, and are pondering what kind of antenna to put up. Here at the peak of the sunspot cycle, there are a number of very interesting considerations.

For example, do I want to put up a long-boom Yagi to filter out the added QRM? Should I erect a higher tower than last time (which is more difficult if the big Yagi is to go atop it!)? Or are there other, propagation-related considerations that come into play? Should I significantly modify my plans in view of the high sunspot numbers?

In my opinion, there are many interesting opportunities, and maybe one of the following scenarios fits into your situation.

Consider, for example, the situation for a DXer located in Europe. It is a trivial matter to work DX in Africa and much of Asia, but some of the closer-in countries (i.e. other Europeans) have been almost impossible to work on the higher bands. Why? With low sunspot numbers, the high bands tend to propagate signals arriving at very low, grazing angles. The first hop may land 2000 km away under these circumstances. But with high sunspot numbers, the ionosphere is more thoroughly energized, and the result is that

signals arriving at a higher angle of incidence may be refracted. Higher angles mean shorter skip distances, and this presents a chance to fill in those missing countries that may be close to your location.

But wait! You need to put up an antenna that will excite these higher angles, so as to put your signal where you want it. High angles are produced by lower heights (for single antennas), and if you need to excite these high angles you may actually wish to consider a lower antenna for a few years!

If you have a big array, like a stack of two Yagis, you won't want to change the height; just change the feeding method! By feeding these antennas 180° out of phase (instead of in-phase), you will get radiation at much higher angles, and this will solve your problem of working those hard-to-get close-in countries.

Another consideration at this point of the sunspot cycle is the fact that bands may be open over a wide range of azimuth angles at a given time. For example, from my location here in California, there have been a number of days recently when ten meters has been open to India (a heading of about 340°), to Europe (centered on 30°), and South Africa (about 90°), all at once! What to do?

A good way to compensate, at least partially, is to use an antenna with a wide frontal lobe, and the best rear rejection possible. Designs like the Moxon Rectangle, described in earlier columns, are ideal in this regard. They may be 6 dB down from a long Yagi, but remember that the ionosphere is making you a lot louder than you were four years ago, and you may not need that gain as much. With the wider azimuth coverage of a two-element beam, you may find that you're getting more responses to your CQs, as DX stations over a wider range of angles will be able to hear you. In my case, I have a six-element Yagi on 10 meters, and when I turn the beam to work a VU2, stations in southern Europe basically disappear!

Another aspect of a small (two-element) beam: if you are considering putting up a mast, but don't have the capability to put up a particularly robust one, the small beam can be put higher than can a long-boom design. If you're in North America and are looking for those elusive Long-Path QSOs, an extra twenty feet of height can be the difference between hearing the DX and not. I would always want to have by 28 MHz Yagi at 50 feet instead of 30 feet, unless I was looking for the close-in contacts mentioned earlier. It all depends on one's needs and objectives.

Finally, we need to consider flexibility.

At this point of the sunspot cycle, there may be a lot of bands open at any given time. Even in the evening, you could reasonably expect to have good DX conditions on 20, 17, 15, 12, and 10 meters at the same time. That's a lot of band coverage to try to arrange using monoband Yagis.

Thinking once more about how the improved ionization is producing higher signal levels, this is an idea time to be using a broadband directive antenna like a log-periodic. With gain somewhere between that of a two-element and a three-element Yagi, but over a very wide frequency range, a log-periodic can help you move from band to band instantly, without even throwing a coax switch! The log-periodic antenna, which utilizes active element areas for several bands on a single boom, will provide more gain on more bands than any other design that I'm aware of. A stack of logs may provide gain approaching that of the long monoband Yagi you may have used in the past, with the added advantage of providing that gain on five or six bands at once!

And if you are compelled to use trees and other features of nature to support your antenna system, don't despair! Spend a few minutes with your favorite antenna design software, looking at patterns for flat-top antennas of various lengths, and work up a design that will put lobes where you want them! A clover-leaf pattern, with 3 dB of gain in each "leaf" of the pattern, will be a very effective DX antenna! Such flat-top antennas can be built very inexpensively; fed with open-wire line and a balanced antenna tuner, they are both efficient and easy to replace after a wind storm! They have stood the test of time, and are highly recommended.

So if you're working up a new antenna system, consider the propagation we'll have for the next few years. Choose your antenna's height to optimize the take-off angle, and keep in mind the number of bands and the azimuth pattern you want on those bands. A little time spent in planning will pay rich dividends in the DX you work!

The Essence of DX

"DX" means many things to different people. To a newcomer to Ham Radio, "DX" may be working someone 100 km away. To a VHF DXer, it might be someone just beyond the horizon. To a 50-year veteran of HF operation, "DX" may only apply to something that hasn't been heard since the last sunspot peak.

The point is that DX is magic to us all, and we should respect and rejoice in the enjoyment that other Hams get in working their DX. At your next club meeting, get up and share your DX experiences with others. It will prompt someone else to get up and contribute reports of his or her own. Then someone else will get up, and before long you'll discover just how many others have the same interests you do. And you may just bring a few new DXers into the fold. Take a moment. . .and share the magic!

73 for now,
Chip Margelli, K7JA

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Amateur Radio Satellite News



by Keith Pugh, W5IU/VK6BRB, Vice President, Operations, AMSAT-NA,
3525 Winifred Dr., Ft. Worth, TX 76133

Phase 3D Launch this Fall, Amateur Radio on the International Space Station, "Arrows and Easy Sats," and "Talking to a Parrot"

INTRODUCTION -

First I must apologize for missing the last two issues with this column. I don't have an excuse other than the old "too busy." These are exciting and busy times in the Amateur Satellite world. Great strides have been made this year getting Phase 3D ready for launch. By the time you read this, it will be in orbit. In November, we will have the first resident crew on board the International Space Station. Amateur Radio is already there waiting for this crew. QCWA members use the popular "Arrow Antenna" to do "Easy Sat" demos. Last but not least, the SUNSAT Parrot is used as a demo for school kids.

Phase 3D Launch -

As 1999 came to a close, the finishing touches were put on Phase 3D in Orlando, FL. Early in 2000, it was shipped by air from the United States to Kourou, French Guiana, via Paris, France. At the time of shipment, we were guaranteed a launch, but not a launch date. Several anxious months went by before things started "firming up." Finally, in August, we were told that our ride would be on AR 507 in October. A crew was deployed to Kourou in early September to complete all of the necessary preparations for a launch. As it now stands (mid October), launch is scheduled for 14 November 2000, and all preparations are done except final stacking, with the other payloads, on the Ariane V launcher. By the time this edition of the QCWA Journal hits the street, Phase 3D should be in orbit.

A successful launch will certainly be a major milestone; however, many other tasks remain before Phase 3D is finally placed in full operation. A series of "burns" must be accomplished with both propulsion systems to move Phase 3D from the Geosynchronous Transfer Orbit the launcher will leave it in to the final modified Molynia orbit desired. During most of this time, the satellite will be "spin stabilized" and controlled by Magna Torquing against the Earth's Magnetic Field. There may be some operation allowed during this time, but conditions will be far from ideal. A curious operator will have more fun during this time following the satellite telemetry to monitor Phase 3D's progress towards reaching the final orbit. Predictions are that it will take nearly a year to reach the final orbit. Stay tuned to the AMSAT News Service for progress reports and operating information. If you have Internet service, go to the AMSAT Web Page <<http://www.amsat.org>> for up-to-date information including photos.

Amateur Radio on the International Space Station (ARISS) -

Progress has been slow getting ARISS on line. Delays in release of major parts of the International Space Station (ISS) caused its deployment to drag out. A major milestone was reached this Summer when the Russian built Service Module was finally installed, providing crew quarters. More Space Shuttle missions and Russian

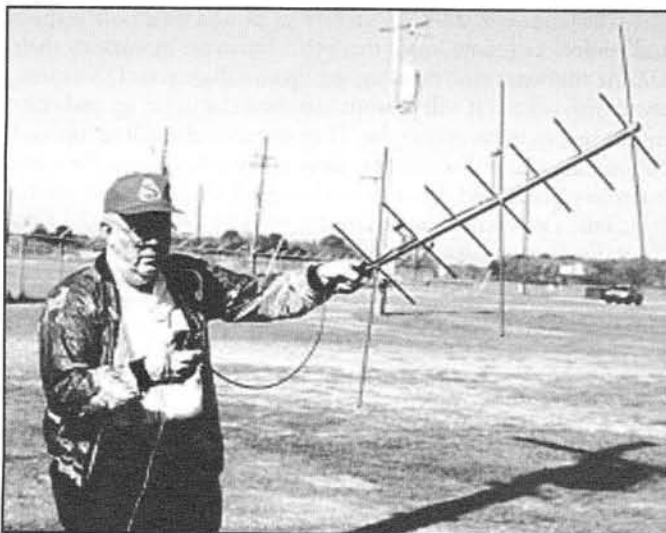
Progress Supply Ship missions have taken place since and ISS will be ready for the first crew in early November. The crew will deploy via a Russian Rocket on October 30, 2000. The initial Amateur Radio gear is already on board awaiting the first crew and their Amateur Radio Licenses. As time goes on, more gear will arrive in preparation for a full time Amateur Radio presence on the ISS. The popular SAREX operations on the Shuttle and Mir are only preludes to the operations planned for ISS.

"Arrows and Easy Sats" -

In March, 2000, I again accompanied Roger Ley, WA9PZL, to one of our favorite Hamfests in Cajun Country, Lafayette, LA. Roger hails from the Shreveport/Bossier City, LA, chapter of QCWA and I represent the Fort Worth, TX, chapter. On this trip, we both represented AMSAT as usual. One of our favorite activities at this



Roger Ley WA9PZL



Keith Pugh W5IU

Hamfest is eating, but we did find time to do several Satellite Demos utilizing a dual band HT and the popular Arrow Antenna. As you can tell from the pictures, this antenna comes complete with Azimuth, Elevation, and Polarization drives enabling it to do a fantastic job on the satellites. Obviously the drives work much better when fueled with Cajun Food. These popular demos are easier than ever now that we have three satellites to pick from, AO-27, UO-14, and SO-35.

In case you aren't familiar with the Arrow Antenna, it gets its name from the Aluminum Arrow Shafts utilized for elements. It has three elements on two meters and seven elements on seventy centimeters and includes a Diplexer in the handle.

"Talking to a Parrot" -

March 2000 was a busy month. Ray Hoad, WA5QGD, and yours truly participated in a "Space Day" activity at the Riverside Applied Learning Center in Fort Worth. Ray did most of the classroom duties (four sessions) and we worked together on "Operation Parrot."

In case you are not familiar with "Operation Parrot," it is a simplex repeater that automatically records for ten seconds and then plays back for ten seconds in a repetitive chain. For this event, we had scheduled the use of the SUNSAT Parrot on board the SUNSAT Satellite (SO-35) for one pass on the morning of "Space Day." The Parrot is one of many payloads on this satellite from South Africa. More details regarding this fascinating satellite are available at <<http://sunsat.ee.sun.ac.za>>. Many thanks to the crew at the University of Stellenbosch for providing such a good tool and making it available to educational opportunities like this one.

With the help of teacher and parents, Ray lined up the kids in the Gymnasium with his Yaesu FT-847 while I operated the antenna outdoors in the teeth of an approaching Thunderstorm. When SO-35 came over the horizon, Ray got the kids in sync with the record/playback cycles and let one kid state his/her name, class, school, and teachers name. Then, during the playback, he would get the next kid ready to talk. This process worked well and we managed to get 25 kids through the process on a twelve-minute pass. Needless to say, the kids were excited when they heard their own voice come back from Space.

Due to the Laws of Physics and Orbital Mechanics, we were only able to do one live SO-35 pass during the scheduled day, so we had to try something else for the other three classes of kids. To simulate the SO-35 Parrot, we set up a Radio Shack Simplex Repeater controller with an Icom IC-2AT in another room and "made believe" we had three other satellite passes. The deception worked well.

Summary -

Over the next year, join the fun getting Phase 3D into its final orbit and fully operational. Get ready to use ARISS for fun and education. It will be the best tool so far to work with the kids. Participate in Hamfest activities for the good of AMSAT and QCWA. Finally, use your spare time to take the exciting world of Amateur Radio Satellites to school for the good of our youth.

73

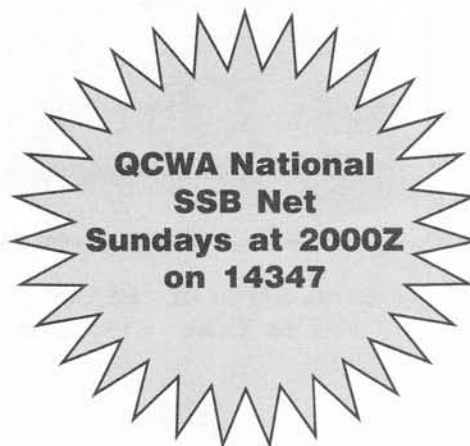
Keith Pugh, W5IU
VP of Operations, AMSAT-NA



Ray Hoad WA5QGD has one student state name, class school and teacher's name. Later, the students would hear their words come back from space.



Ray Hoad WA5QGD demonstrates the "Parrot" operation of the SUNSAT Satellite (SO-35) to a class of young students at the Riverside Applied Learning Center in Fort Worth. He did this for 3 other classes.





From Frank W3KT, past president Chapter 200

It's always fun to share a nice story. We had our local QCWA meeting Tuesday night. Bob Sorkin W4JDI, a professor at U of F and our Vice President, reported that his grandson passed his amateur radio license the previous weekend.



This ain't no lollypop fella, this is a mike.

"So what," you might say. Well, his grandson is only 6 years old. Everyone at the VE session applauded when they heard he passed. Not too shabby.

Heck, he'll only be 31 years old when he qualifies for QCWA.

From George Brooks W2GX - Doin' the Continental

I wonder how many caught the error in Eighty Years - Earl Korf K2IC (Fall 2000, pp7)?

The two authors Bob Buss W2OD and Bernie Ricciardi WB2EJT refer to the Continental clickety-clack of the sounders. Sorry, it was American Morse Code, not the Continental or International code that was used by US and Canadian Railroads, and Western Union Telegraph Co., as well as by telephone companies. Postal telegraphers employed the Continental code. Nuff said.



Editor's Corner

Last year at this time, we were contemplating our imminent demise as a result of all the computers in the world exploding at the stroke of midnight December 31st. I'm beginning to feel pretty sure we made it through Y2K with few disruptions. But we are faced with another difficult dilemma entering 2001. Is it the new millennium or not?

Two years ago, we heard the politicians bragging about this bridge they were building for Year 2000 - the bridge to the new millennium. Then along comes some wacky scientists explaining that the millennium won't arrive until 2001. All those bridge construction guys were left standing around wondering what to do.

I sort of wanted my "lead" paragraph to have something to do with "Welcome to the millennium - 2001" but I wasn't sure. Seems like construction of the bridge hasn't been mentioned lately. So I decided to do some research. According to the Official Keeper of the Ticks and Tocks, the US Naval Observatory says:

When Is the New Millennium?

mil*len*ni*um \ \ n, pl -nia or -niums: a period of 1000 years The end of the second millennium and the beginning of the third will be reached on January 1, 2001. This date is based on the now globally recognized Gregorian calendar, the initial epoch of which was established by the sixth-century scholar Dionysius Exiguus, who was compiling a table of dates of Easter. Rather than starting with the year zero, years in this calendar begin with the date January 1, 1 Anno Domini (AD). Consequently, the Third Millennium does not begin until January 1, 2001 AD.

This piqued my curiosity. Can you imagine what the calendars looked like in the Year 0001? Also, I was wondering if checks had the 00 preprinted on them like today where you only have to fill in the last two numbers. I guess a lot of questions will go unanswered but here are some interesting facts about the year 1.

Thanksgiving fell on a Thursday as usual but Christmas fell on a Sunday. Chances are the people didn't get an extra day's vacation because they never got around to that sort of thing for a few thousand years. I guess they didn't have strong unions back in those days.

Information that may be of interest to sky watchers, there was a full moon on December 19th.

According to the USNO, this Mr. Dionysius Exiguus decided to start at 1 instead of zero for the first year. If you start to think about it, you start to wonder about his grasp of simple Algebra. If you are counting down (or is it up - whatever) -3, -2, -1 - don't you hit 0 (zero) somewhere along the way? If I would have had to plot some charts in my college engineering classes and the numbers along the "y" axis were -3, -2, -1, 1, 2, 3, etc., my gut feeling is that things would not be all they seemed to be. Somehow, I think the Prof. would have graded accordingly.

So did Dionysius make an error? If he did, then maybe the millennium is really the year after 99; making it 1000. That means we already missed the big celebration of the New Millennium.

So, I decided not to make such a big deal out of it. I just feel sorry for those poor folks that were born in 0. They had to wait an extra year for their Social Security.

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What Is Electricity?

- Contributed by Jim Wilcox W3WV

Today's scientific question is: What in the world is electricity . . . and where does it go after it leaves the toaster?

Here is a simple experiment that will teach you an important lesson about a principle of electricity: On a cool, dry day, scuff your feet along a carpet, reach your hand into a friend's mouth, and touch one of his dental fillings. Did you notice how your friend twitched violently and cried out in pain? This illustrates that electricity can be a very powerful force. It also teaches us that we must never use it to hurt others . . . unless we need to learn an important scientific lesson.

This experiment also provides an excellent example of how an electrical circuit works. When you scuffed your feet, you picked up batches of "electrons," which are very small objects that carpet manufacturers weave into carpets so they will attract dirt. These electrons travel through your bloodstream and collect in your finger, where they form a spark that leaps to your friend's filling. From there, the electrons then travel down to his feet and back into the carpet, thus completing the electrical circuit.

Here is a little-known Amazing Electronic Fact: If you scuffed your feet long enough without touching anything, you would build up so many electrons in your finger that it would explode! This is absolutely nothing to be concerned about, however, unless you happen to walk on carpeting.

Although we in contemporary society tend to take for granted our electric lights, radios, mixers, and many other modern consumer appliances, it should be noted that only a few hundred years ago people did not have any of these conveniences. This is just as well, because at that time there was no place to plug them in because the electric outlet had not yet been invented.

It was at about that time that the first pioneer in electricity, Benjamin Franklin, performed his seminal electrical research. In one of his investigations, he flew a kite during a lightning storm and received a rather serious electrical shock. Franklin's experiment was important in that it proved that lightning is powered by precisely the same force that powers carpets. Unfortunately, the resultant shock damaged Franklin's brain so severely that he started speaking only in arcane and incomprehensible metaphors, maxims, and aphorisms, such as, "A penny saved is a penny earned." Sadly, Franklin's condition progressively deteriorated. Ultimately, his mental capabilities became so adversely affected he had to be given a job running the Post Office.

After Franklin came the many electrical pioneers whose names have become familiar words in our electrical terminology: Myron



Volt, Mary Louise Amp, Hilda Watt, Leo Transformer, Al Hertz, et al. These tireless pioneers conducted many important electrical experiments. For example, in 1780 Luigi Galvani discovered (this is the truth) that when he attached two different kinds of metals to the leg of a frog, an electrical current developed and the frog's leg kicked, even though it was no longer attached to the frog . . . which was dead anyway. Galvani's discovery led to extensive advances in the important field of amphibian medicine. Today, skilled veterinary surgeons can take a frog that has been seriously injured or killed, implant pieces of metal in its muscle, and watch it hop back into a pond as if it were a normal frog—except for the fact that it sinks like a stone.

The greatest electrical pioneer of them all, though, was Thomas Edison. Edison was a brilliant inventor despite the fact that he had little formal education and lived in New Jersey. His first major invention, in 1877, was the phonograph, which soon could be found in many thousands of American homes. Here it basically sat until 1923 when the phonograph record was invented.

Edison's supreme achievement, though, came in 1879 when he invented the electric company. His design was a brilliant commercial adaptation of the simple electrical circuit: The electric company sends electricity through a wire to a customer, but the company cleverly provides another wire so they immediately get this electricity back. Then (this is the brilliant part) they send this very same electricity right back to the customer again!

What this means is that an electric company can sell a customer the same batch of electricity many thousands of times each day and never get caught. This primarily is because very few customers take the time to examine their electricity closely. It is a little-known fact that the last year any new electricity was generated in the United States was 1937! The electric companies brazenly have been reselling it ever since, which is why they have so much free time to apply for rate increases.

Today, thanks to men like Edison and Franklin, and to frogs like Galvani's, we receive almost unlimited benefits from electricity. As just one example, in the past few decades, scientists have refined and improved the sophisticated invention known as the laser. A laser is an electronic device so powerful that it can vaporize a bulldozer 2000 meters away. Yet the laser also is so accurate and precise that doctors can use it to perform delicate operations on the human eyeball . . . provided they remember to change the power setting from "Vaporize Bulldozer" to "Delicate Eye Operation."



Mr. Wilcox discovered this anonymous article about electricity several years ago while working as a consultant to Delmarva Power Company in Delaware. Mr. Wilcox "cleaned it up" in the parlance of the editors of the world. A fine writer in his own right, Mr. Wilcox is the Editor of the Vic Clark Chapter 91 newsletter.

QCWA Files Petition Hope to restore lost privileges

PRESS RELEASE October 30, 2000

The Quarter Century Wireless Association, Inc. has filed a petition with the Federal Communications Commission requesting rulemaking action to amend Section 97.505(a) of the Commission's Rules for the Amateur Radio Service. This amendment would facilitate the restoration of those privileges withdrawn from Advanced and General Class operator licensees on November 22, 1968. The amended rule would do this by requiring administering volunteer examiners to give examination Element 4 credit to current Advanced and General Class licensees also holding an FCC-issued Advanced, General or Conditional Class operator license granted before November 22, 1968. By doing such, the person would become eligible for a Amateur Extra Class operator license, the privileges of which include those withdrawn on November 22, 1968.

On November 22, 1968, amateur operators holding Advanced, General and Conditional Class licenses lost significant operating privileges as a result of rules adopted by the FCC in implementing a system of incentive licensing. Every Advanced, General and Conditional Class operator was affected adversely. Within the instant of but a single tick of the clock, their privileges on the most popular amateur service bands were reduced drastically. To regain the privileges withdrawn, a licensee had to upgrade to Amateur Extra Class by traveling to an FCC office and passing difficult high-speed telegraphy and written examinations.

It is the QCWA view that no useful purpose is being served by continuing to deny the privileges withdrawn to those amateur operators who still suffer from that action. The single issue addressed in the petition is the need to restore to these operators the privileges they have not enjoyed for some 32 years. In sharp contrast with the compassionate "grandfathering" provisions recently adopted for the amateur service, the transition to incentive licensing imposed an injustice on all amateur operators holding an Advanced, General or Conditional Class operator license grant on November 22, 1968. It brought serious disruption to the amateur service and created ill will within the amateur service community. Although many, if not most, of the licensees affected have since upgraded to a higher operator class, there is a widespread belief within the amateur service community that the abrupt withdrawing of privileges was unjust to all Advanced, General and Conditional Class operator licensees of that era.

There remains today, at most, a few thousand amateur operators so affected who have not chosen to upgrade. Some do so as their statement in protest to having been affected so adversely. Clearly, these licensees lost significant privileges for which they had previously qualified by examination before FCC examiners. Moreover, for many years - in some instances for many decades - these licensees had been using those privileges at their amateur stations. Most certainly, they had proven conclusively their proficiency in operating an amateur station properly with those privileges. Then, in that instant of time, those very privileges were withdrawn.

As the organization whose purpose is to promote cooperation and friendship among amateur operators of at least 25 years of service, the QCWA seeks a prompt ending of the injustice being suffered by those within its constituency. The QCWA is committed to promoting interest in the amateur service and the advancement of the electronic art, making use of the reservoir of knowledge and experience among the nearly 10,000 members of the QCWA for the benefit of all amateur operators and the furtherance of the public welfare through amateur service communications.

Summary Report of Board Actions, October 12, 2000 Board of Director's Meeting, Toronto, ON, Canada

The newly elected Board of Directors held their first meeting at the Toronto Convention on October 12, 2000. All members were present except for Treasurer Doughty, who was absent due to an injured foot. After the roll was called, the agenda was reviewed, several items added and the agenda approved. The following items represent the major actions taken by the Board and were reported to the membership in attendance at the QCWA Forum on Friday morning, October 13.

As a result of the ballot problem that occurred during recent election of new board members this past year, a change in the procedure for review of ballots has been instituted. The President and Secretary will review the original copy prior to sending it to the printer. This is in addition to the reviews at Headquarters.

Considerable time was spent on discussing future conventions. The last several conventions have not done well financially or in attendance. Vice-President Taylor presented several suggestions that will need to be considered in the future. The QCWA Constitution requires that an annual meeting of the officers and directors and also an annual meeting with the membership. With poor attendance at the conventions (membership annual meeting), an alternate approach may be to have the board meeting followed with a meeting with the membership and banquet. This would require considerable less effort to plan and a lower risk financially. Local chapters would be invited with the meeting moved to different locations each year to reach as many members as possible. Presently, the plan for 2001 is to have a "ham cruise" for all amateurs sponsored by the QCWA. A meeting for all members would be held prior to the cruise, in accordance with our Constitution. At present, there are no plans for a 2002 convention.

A large portion of our expenses goes to the editing, publishing and mailing of the Journal. The Board in considering retaining an advertising manager tasked to increase the paid advertising pages of the Journal. Several possible individuals will be contacted to see if they are interested. Added funds to support the Journal will make general funds available for other QCWA activities, which directly support our organization.

Funds for a complete audit of our finances were approved, as a result of a request from our new Treasurer. This will provide a baseline of our accounting procedure and be useful should the IRS ever decide to audit our tax-exempt status.

Our Scholarship program will be offering sixteen, \$1000 scholarships for 2001. These will be administered by the "Foundation for Amateur Radio" at no cost to the QCWA. The Board continues to urge that local chapters contribute to the general scholarship fund in memory of chapter Silent Keys.

In the past, a paper copy of the membership directory has been available. Starting now, the directory will be available in two formats. A CD-ROM will be available from the General Manager for \$10, post paid. Files will be in the Adobe Acrobat format (pdf) and will be searchable and printable. The same information will also be available on the QCWA web page, in the same format. A reader is available at no cost for both PC and Macintosh computers.

The QCWA Endowment Program continues to grow. Director Doty has prepared a brochure detailing information about the program. Printed copies will be available for distribution to chapters for their use.

Continued on page 15

44TH ANNUAL QCWA QSO PARTY RESULTS

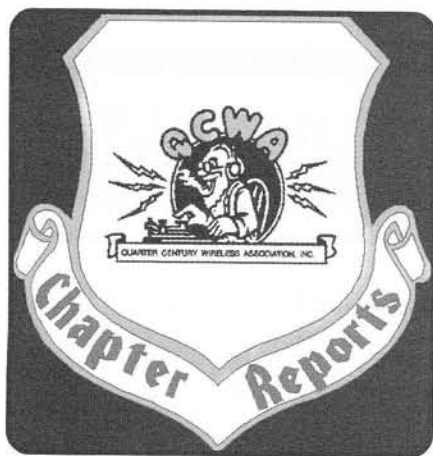
SEPTEMBER 16 AND 17, 2000

Call	Name	Chapter	QSO's	Mult.	Total	Call	Name	Chapter	QSO's	Mult.	Total
1 VE3SY/W2MM	Paul	73	290	110	31900	39 W3TFA	Stan	23	34	14	476
2 VE3CT	Croft	70	234	86	20124	40 K8VFR	Rosemarie	MI	30	15	450
3 K2TVY	Frank	138	218	78	17004	41 W9FUW	Herman	76	22	18	396
4 W4YE	Leland	202	159	54	8586	42 K5WX	Keith	67	32	12	384
5 K40RD	Riley	202	150	43	6450	43 W0LVM	Walt	IL	30	12	360
6 VE3BNO	George	70	116	40	4640	44 W2EWT	Bill	65	26	13	338
7 K6SS	Len	130	74	54	3996	45 VE3AHZ	Jack	70	24	14	336
8 AB5FS	James	63	96	36	3456	46 K0RY	Harvey	110	27	10	270
9 WOAP	John	25	83	40	3320	47 W3TZW	Roy	6	26	10	260
10 K2SSE	Al	173	75	34	2550	48 WD9DJ	Paul	2	18	14	252
11 K9VKY	Brian	6	80	31	2480	49 W3ABC	Hugh	23	24	9	216
12 K4HBI	Mike	49	65	38	2470	50 K4AXB	Charlie	45	21	10	210
13 W5KL	Leland	158	81	29	2349	51 W3SVJ	Nathan	6	19	11	209
14 K5RB	Dick	41	66	35	2310	52 K0AJN	Walt	76	14	14	196
15 WA1PFC	John	112	74	31	2294	53 W61FC	Lyman	CA	20	9	180
16 N2KD	Ken	128	65	35	2275	54 W4PCO	Don	32	12	14	168
17 W3UHP	Ernie	6	70	30	2100	55 K4DGJ	Sam	NC	15	11	165
18 W3FZV	Phil	16	71	29	2059	56 W1WW	George	89	20	8	160
19 K8MFK	Frank	MI	54	38	2052	57 K0THN	Charles	35	25	6	150
20 K7BZ	Stan	16	66	28	1848	58 W9NVK	Ed	162	12	12	144
21 K1AA	Norm	45	65	27	1755	59 VE3VK	Gus	70	16	8	128
22 VE3XK	Doug	70	56	31	1736	60 W5LUE	Jack	72/41	12	10	120
23 K4QE	Walt	107	66	26	1716	61 W9HDI	Charles	WI	9	13	117
24 W2VEX	Norm	65	55	30	1650	62 W0YQY	Don	25	8	10	80
25 K4BAI	John	GA	69	23	1587	63 K6CJ	Phil	191	12	6	72
26 W2KTF	Charles	81	60	25	1500	64 K4AVH	Bill	32	7	8	56
27 W9ZEN	John	59	58	25	1450	65 KA3AVB	Bob	6	8	7	56
28 K4SUS	Tom	12	50	28	1400	66 W7MC	Sergei	16	9	6	54
29 W9BRD	Rod	70	58	24	1392	67 NS30	George	6	8	6	48
30 W1HE	Tom	112	62	21	1302	68 N9NBC	Ken	162	6	7	42
31 K21C	Earl	138	46	28	1288	69 K7EWG	Carl	175	5	7	35
32 W0HXL	Dick	25	42	29	1218	70 KR8G	Bob	128	5	7	35
33 W4HU	John	91	48	24	1152	71 W0DFT	Ray	19	5	7	35
34 W9HR	Al	162	52	18	936	72 WA4FRA	Bob	5	4	8	32
35 W5CJZ	Barney	41	42	18	756	73 W4AGI	Victor	202	8	3	24
36 DJ5GG	Guenther	106	38	19	722	74 WA9JMD	Larry	162	4	4	16
37 W3FYK	Bill	17	36	17	612	75 K4BSF	Charles	202	2	4	8
38 W6HG	Hugh	130	32	17	544	76 N9WW	Jim	2	2	2	4

Summary Report - Continued from page 14

An operating budget for 2001 was approved. This budget was prepared by out-going Treasurer Knief. The new Treasurer Doughty has been briefed on the budget and will be responsible for preparing the 2002 budget.

— Chuck Walbridge, K1IGD, QCWA Secretary k1igd@rcn.com



Chapter Reports are a very important part of the Journal and we would like to see regular reports from all chapters. If your chapter is not represented on these pages, please ask your secretary to file a special report for the Journal. Please send the reports to General Manager, Jim Walsh, to arrive no later than the following dates: July 1, October 1, January 1, and April 1.

Chapter 1, Cleveland

They're still talking about the trip to Pittsburgh. It was an experience of a lifetime. Thirty-one members of Cleveland Chapter No. 1, QCWA, their wives, and radio friends boarded a chartered bus from Cleveland on Saturday, August 26, 2000. They had been invited by the QCWA Chapter One's President, George Misis, KE8RN, and his XYL, Barbara, to their home QTH in Pittsburgh.

Our first stop was the century-old Duquesne Incline. From there we had a spectacular view of Pittsburgh. The two-hour trip also gave our members a chance to visit the local Carnegie Science Museum, featuring hands-on experience. Besides this there was a planetarium, and even a visit to a world-war submarine, the Requin. On board was a Ham operated Amateur Radio Station, NY3EC. There we were guests of the Pittsburgh QCWA Chapter.

There was also a visit to the largest radio controlled Model Train exhibit in the country. As Bernie Hinrichsen, W2NTB, said, "It alone was worth the trip!"

Barbara acted as our guide, while her sister, Beth, gave an inspiring talk on the City of Pittsburgh and its history. The height of the trip was a visit to George's collection of some 300 pieces of vintage commercial Amateur Radio equipment. The gear was neatly stacked on shelves and brought many a nostalgic "ah" and "oh". The good old days of Amateur Radio!

The excursion was topped by an excellent dinner at one of the local prestigious restaurants, The North Park Lounge Clubhouse. Assisting in the venture were members of the Pittsburgh Chapter of QCWA. These members included K3HX and Beth, W3WM, our new QCWA director, and Sylbia, as well as W3SVJ.

Our grateful thanks to George and Barbara, as well her sister, Beth, for the fabulous trip.

Lastly, we also welcome a new QCWA member. He is Charles F. Martin, WB8LDV, of Mentor, Ohio, QCWA No. 30532.

Joseph Zelle, W8FAZ

Chapter 2, Chicago Area

The business portion of the meeting was called to order by President Jim Quinn, W9MFY at 12:30 PM

There were 20 members and 17 guests in attendance. Jim Quinn welcomed the members, their guests and the non-members. He also announced that a Board

member, Phil Brankin (K9PB) was in the hospital and had a leg removed. There's a card for everyone to sign wishing him well, which will be sent to him. He also announced that the members receiving the certificates for continuous licensing was 975 years of amateur radio operation. This does not include the Chapter 2 members not receiving the certificates. Each of the attendees stood up and introduced themselves. Gil Kowols announced that there was a sign-in sheet being circulated and asked everyone (including guests) to sign in. He also reminded everyone to sign the 'get well card' for K9PB, which is on the table as you come into the room.

Jim Quinn entertained the attendees with a bit of humor while everyone proceeded to the buffet. The buffet was outstanding. No one could come up with anything that was missing. Anything you could want for breakfast or lunch or brunch was there. A chef was there for custom eggs or slices of beef and ham. Naturally everyone overdid it.

While everyone was eating, Jim Quinn conducted a short business meeting. He announced that the Chapter was solvent. Then he turned the floor over Gil Kowols. Gil proceeded to hand out the Certificates for continuous amateur radio licensing, which are issued by Headquarters.

The awards were given to 8 members who were present (see picture): W9MOL, W9BOX, K9JQ, W9JUV, W9GVA, W9LC and W9IPO.



Back row: Ed Webb, W9IPO (60 years), Joe Schroeder, W9JUV (50 years) front row: Howard Wayman, W9GVA (60 years); Lee Knirko, W9MOL (60 years); Paul Crum, W9LC (65 years); Al Mazure, W9LOB (65 years), Jim Quinn, W9JQ (60 years); Dominc Palotto, W9BOX (60 years)

The brief meeting was then closed. After the 'stuffing', Paul Crum introduced the entertainment. Paul has managed to outdo himself every year with different and entertaining programs. This year, Paul introduced the Bill Bailey Banjo Band.



Bill Bailey Banjo Band in action.

The banjo band is a talented trio who sings, dance, clown, and tell jokes. They do it all. And they do well. They play all they old tunes we know and love. They invited the audience to sing along at one part as a sing-a-long. It was a fun program and fit into the afternoon perfectly. The program manager is to be congratulated for his selection for our Annual Meeting. Everyone left in a mellow mood.

Gil Kowols W9BUB - Secretary

Chapter 5, Delaware Valley

The Delaware Valley Chapter 5 held the fall meeting on September 16, 2000 at the Town & Country Restaurant in Bordentown, NJ. The luncheon started at 12:00 noon and the Chairperson Florence Power, WA2WYE, welcomed everyone and gave the invocation. While the orders were taken by the waitresses, the minutes of the June meeting were read by the secretary and approved. The treasurer's report was given



No caption available

by the secretary since the treasurer could not be present and had sent the report to the secretary. The Chairperson announced that a nomination committee had been appointed and the election will be at the next meeting in December. The members of the committee are: Lou Bazin, W2IRS, Charley Davison, K2DOV, and Roy Brown, WA2TWS.

The speaker for the meeting was John H. Livingstone, who is the New Jersey State Librarian. Mr Livingstone holds degrees from Temple University, and Drexel University. He became State Librarian after serving as director of the Monmouth County Library where he served for 24 years. His talk was on the many services that the State Library offers to the public and the providing of computers to all of the 300 plus libraries in the State. Also Princeton University and Rutgers University are also connected into the network of all the individual libraries. His talk was very interesting and informative.

Chapter 5 maintains a net on Sunday morning at 9:45 on 3917 kHz and all members are encouraged to check in. Also there is a home page that is maintained by Doug Crompton, WA3DSP, for Chapter 5. The address is <http://www.resuba.com/qcwa5>.

Donald G Field W2UAE - Secretary

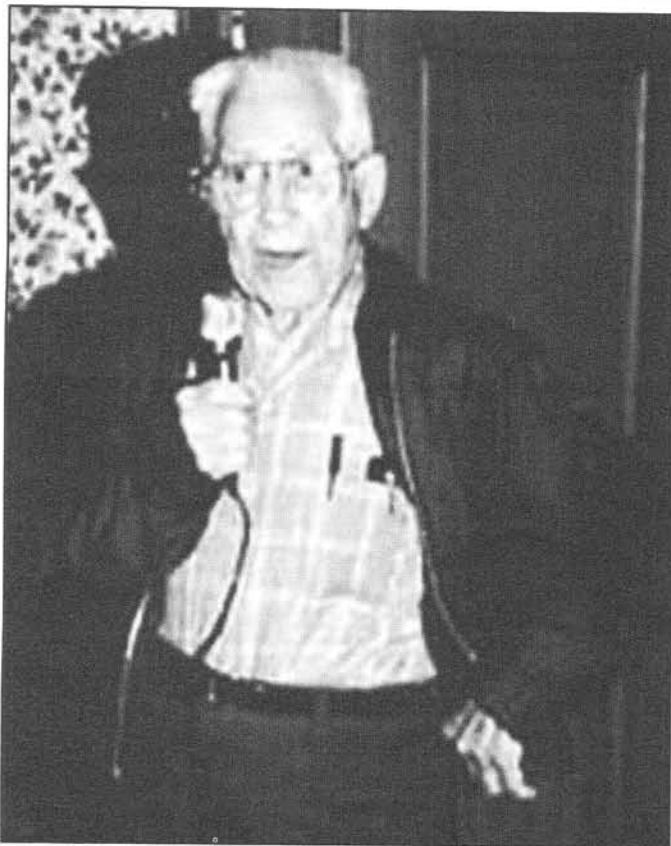
Chapter 9, Southwest Ohio

Carl Yeager, W8DWT, became a Silent Key on April, 13 2000.

Carl made it to the ripe old age of 94. Thus he grew up with two important inventions of the 20th century: the radio and the airplane. He made the one to his hobby and the other his career. Just a year ago, he underwent surgery and subsequently checked into Lincoln Park Manor Nursing Home, where he enjoyed the little things in life. The last time most of us saw him was at the QCWA Christmas Luncheon. I saw him last in March, just before we left for a trip to Germany and Austria. His roommate had moved out and he inherited the place by the window. He told us about an antenna he could see and signs of spring and he loved to observe the birds. Carey, K8DOT, did see him the day before he died and trying to help him with a drink of water, Carl insisted to hold the glass himself.

This was typical for Carl, always available and helping others. He was a generous supporter of the Red Cross and his pride was a photograph taken in 1997, showing him with Elizabeth Dole, Red Cross President. Here in his own words how he came to appreciate the Red Cross: "In 1913, when I was eight years old and living on Hunter Avenue, I was in the Dayton flood. The waters kept rising and Dad kept moving the furniture higher and higher. Finally, the water was so high, we lost all our furniture and had to spend time in the garret without light or a place to sleep. Dad chopped a hole in the roof, so the family could escape or at least see what remained above water in the neighborhood. I can still see the rescuers coming in their boats and taste the beans we lived on in our attic. I will never forget what this help meant to my family."

Carl, born on December 20 in 1905, became a ham



Carl Yeager, W8DWT

in 1922 at the age of 17. His call then was "8ADC". Later he received the call W8DWT. In a newspaper article from 1972 when presidential candidate Barry Goldwater, K7UGA, was in town to present him with the 50 year QCWA certificate, Carl revealed what had gotten him into the wireless and ham radio. Seems like Carl was an avid fan of "Tom Swift", the hero in a very popular series of children's books. Volume 6 was titled: "Tom Swift and the Wireless Message." I tried to find this or any other Tom Swift book without success in the local library. These books were published between 1910 and 1935. They are out of print and are traded on the Internet as "collectibles". I imagine them to be comparable to the "Harry Potter" children's books of today, however, even more kids were reading then because there was no TV and radio was in its infancy. Certainly I remember this to be the case when I grew up in the 30s and 40s.

In ham radio clubs he served in many positions, including president of QCWA. He helped many newcomers into the hobby and was quite active on the short-wave bands and on 2 m when this became popular in the 50s. He was also for many years "Net Control" for the "Old, Old Timers Club" and the local QCWA, Chapter 9 Sunday net on 75 m. Only last year, Jim, K8YDP, took over this task.

I got to know him first as a photographer ham, since I am similarly interested in photography. To mention just one highlight: a picture he took from a fatal crash at an automobile race, was subsequently published, in the local newspaper. He must have had a good trigger

finger, a characteristic that seems to be "inborn". I am usually too slow to get those "one in a lifetime" shots. However, I had the pleasure of introducing Carl to digital photography sending him a few pictures via e-mail to the nursing home.

Carl started his working career in 1926 at the Old McCook Field as a laboratory aid for wind tunnel tests



Carl Yeager and Elizabeth Dole at a Red Cross function prior to his death.

and he kept working, eventually as an aeronautical inspector at Wright Field (now WPAFB) for 40 years. Carl had four sisters, who preceded him in death. One brother, 16 years his junior, survives him. Carl did not marry but lived many years together with his sister Marie.

Carl, we all will miss you!
Gerd Schrick WB8IFM.

Chapter 10, Michigan

The Michigan Chapter 10 held their annual picnic on August 16 at Kenwood Park in Cadillac MI. There were 12 members and guests present. Not a large crowd, but a very good time was had by all, and the food was great, as usual.

President Mike, WB8ICN, has been attending some of the swaps being held around the state this fall, and meeting new hams and recruiting some new members for our chapter. He is enjoying the fellowship and finds having a booth set up to draw attention to the QCWA is working out fine. Look for him at the swaps you attend. Good job Mike, and keep up the good work.

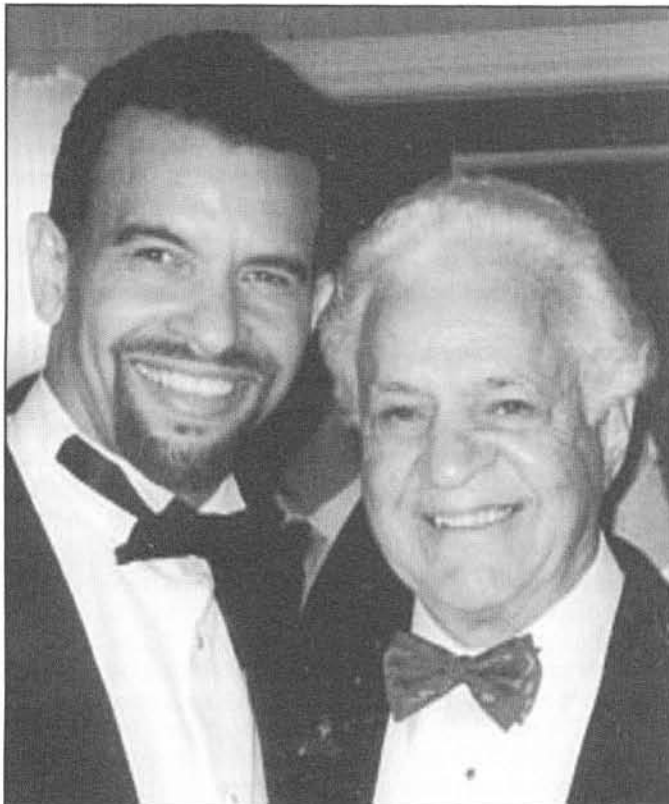
Our Sunday net continues to thrive and we invite anyone to check in with us at 8 AM local time. The frequency is 3.903 MHz. We especially enjoy having those who are almost up to their 25 years as a ham join us and learn about the group so that they can send in the membership application as soon as their 25th year dawns.

Some of our members will soon be heading south to meet with their winter chapters. We will miss them, and hope they have a safe trip.

Happy Holidays to all.
Beverly Stoner K8ZJU - Secretary

Chapter 14, San Diego

Congratulations to Chapter 14 member George Mitchell, K6ZE QCWA No. 4465, wife D'Andrea, K6DEE, and son Brian George and D'Andrea were guests of George's son Brian at the Radio City Music Hall in New York City June 4, 2000. Brian was the recipient of a Tony award for his performance in the revival of Kiss Me Kate in the category of leading man in a Musical. Also, this year Brian received a Drama Desk award and the Outer Critic's award, both in the category of "Best Performance by a Leading Actor in a Musical". In 1998 Brian was nominated for a Tony for his role of Coalhouse Walker Jr. in the Broadway Musical, Ragtime. Brian is a licensed private pilot and an accomplished skydiver.



Brian Stokes Mitchell (l) and proud Dad George T. Mitchell K6ZE (r) ex-W7ZQX. Son Brian received a Tony for his performance in the revival of the musical Kiss Me Kate.

At our Fall meeting on September 17, 2000, twenty eight Chapter 14 members and guests enjoyed a delicious brunch followed by a prize drawing presided over by Chapter President Pat Bunsold, WA6MHZ, assisted by Jack Pletcher, W6JIR, Chapter Treasurer and Program Chairman. Pat always comes up with some interesting prizes including some donated by Chapter members. The highlight of the meeting was a presentation by retired pilot and member of the San Diego Aerospace Museum; Randy Prine. Included in the presentation was basic theory of flight, a brief history of aviation and the status of the International Space Station. The talk was punctuated by anecdotes pertaining to Charles Lindberg's selection of Ryan Aeronautical



D'Andrea D. Mitchell K6DEE (l) xyl and George T. Mitchell K6ZE.



Chapter President Pat Bunsold WA6MHZ (left) and Jack Pletcher W6JIR Treasurer and Program Chairman.

of San Diego as builder of the plane that in 1927, he flew non-stop from New York to Paris. We were brought up to date on the present configuration of the International Space Station illustrated by a model that Randy had fabricated. Our interest was heightened by the recent delivery of ham radio equipment on the last Shuttle. Our speaker concluded his talk after fielding questions from the audience that included experiences during his career in commercial aviation.

Reuben Onstad N6BAS - Secretary



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QCWA
Golf or T-shirts

Order from QCWA Headquarters

Chapter Reports

Chapter 21, Canton, Ohio

The regular quarterly meeting of QCWA, Chapter 21, Canton, Ohio was held August 19, 2000, following luncheon at the Hometown Buffet, Canton, Ohio. There were 25 members and guests present.

Nelson Caley W8EAR introduced the program. The speaker was Marilyn Revoldt of the Aultman Hospital Prime Time program. The Prime Time program is for people age 50 and older. It offers educational information, sponsors trips, and has speakers available for meetings. Her topic for this meeting was, "Laughing all the way to better health." She described how humor can reduce stress and pain, improves digestion, aids respiratory system, and, thus, is a powerful good health tool.

John Edel K8LBZ reported that he has completed his term as national director of QCWA. He was in the office for 9 years. He did not choose to run again. He then turned his gold national director's badge over to the secretary to be kept with the archives of Chapter 21. Appreciation was expressed to him for his service and representation.



John Edel K8LBZ, QCWA National Director for over 9 years, tells chapter members he has decided not to run again. His gold national director's badge will be retained in the Chapter 21 archives. Photo by Ed Clinger WA8DRT.

During the business session announcements and notes from absent members were read. Several door prizes were awarded. It was noted that there were two reports for Chapter 21 in the summer Journal. Unfortunately, one report was for 1998 and was not the lost report. The next meeting will be election time for officers and a director.

David Glass W8UKQ, Secretary

Chapter 38, San Antonio

We normally meet at 11:30 A.M. on the fourth Saturday of each month, except in June, when we meet on the 3rd Saturday to allow participation in ARRL Field Day and in December when we do not meet. Location of the meeting may be obtained by contacting Jim Wright, K5CDT, by telephone at 210.655.2346 or by e-mail at k5cdt@juno.com.

The year 2000 has brought about a number of changes in the operation of the San Antonio Chapter. To improve attendance and as a service to our members, those members with the capability to do so receive an extra reminder by e-mail a couple of days before each monthly meeting. This service has been well received by the members.

To further improve communication with the membership, we have established a web page at <http://homestead.juno.com/qcwa38/home.html>. This page always has an announcement of the date, time and place of the next meeting. The subject of the program is added when it becomes available. Information concerning other amateur radio activities in the San Antonio area may also be included on the page. It was simple to build using the tools provided by Juno. Other chapters might want to take advantage of the same idea.

Our chapter's president, Steve Cerwin, WA5FRF, wrote an article entitled "Amateur Television from Model Planes and Rockets," which appeared on page 41 of the September 2000 issue of QST. Anyone, even non-amateurs, will find Steve's article to be most interesting. Steve has given programs at chapter meetings which have included his video tapes taken from aboard the flights described in the article. The contributions made by Steve and other amateur radio operators to the Krueger Middle School magnet program cannot be measured. Why not pull out your September issue of QST and have a look?

Jim Wright K5CDT - Secretary/Treasurer

Chapter 39, Akron

The meeting of July 20, 2000 was held at the Waterloo Restaurant at noon. There were 9 members and 9 guests present.

Before lunch Bill Hessler W8DXT, Sec'y-Treas, spread out a display of documents for attendees to look over, including the bank documents showing Gene Cooke W8XL as second signer on the bank account, as was decided at the April meeting. There were also newsletters from other COOCOM chapters, as well as short notes from Bob Sheppard W8CGG and Arnie Farkas W8UPG that had been received with their dues payments.

After lunch and a short intermission Bill opened the meeting with the traditional introductions all around. We welcomed Floyd "Pappy" Gilbert WB8ALK as a prospective new member. Next I reported that, in the course of calls about the meeting, I learned: -that Phil Worsencroft W8PBS had suffered a bacterial infection and he was in the process of changing QTH; -that Mert Mason W8VUU is dropping his membership because he can't make it to the luncheon meetings; -that Carl Muller K8ESX had become a Silent Key last spring.

Gene Opperman KB8JOP was a no show because he had to stay home for a plumber's house call.

Del Labo W8SJC told of TVI difficulties when the 15 meter band first became available. This was due to a poor choice of IF in TV receivers. He showed a document that he had received which I understand verified the legality of amateur use of that band. That could quiet TVI complainers.

Next he gave a treasurer's report that showed cash balances of \$222.09 in the bank and \$6.97 in petty cash.

The next meeting will be on Oct. 19 at the same place.

The Kitty collection amounted to \$16.

Bill Hessler W8DXT - Secretary

Chapter 41, Dallas

Airline pilots are required by federal law to retire upon reaching age 60. A recent but obscure amendment to The Equal Opportunity Employment Act while not affecting that law now makes possible for a certain segment of senior citizens, those who have attained age 65 on or after July 30, 1999, and who verifiably have no prior pilot training, to become airline pilots. Pouncing on this plethora of golden opportunity for seniors, Chapter 41 members Hall Bond, K5ZSB, and Jordan Jones, W5CF, who are retired airline pilots themselves, have co-authored a brisk-selling book written in non-technical language expressly for seniors titled: "Airline Piloting for senior Seniors - or How to Obtain an Air Transport Rating in 28 Days and Fly for the Airlines" (Franchet Publishing Co., New York, 2000). According to Bond and Jones, the nation's burgeoning airlines are hard-pressed to find relief-pilots to accommodate their pilots who are on vacation, attending PTA meetings, attending investment seminars, or just calling in sick - a situation forecasted by analysts to continue for decades. A heretofore unrecognized solution to the problem is to draw upon the immense pool of seniors who have never flown and thus have no prejudice against airline management, on-time departures and arrivals, overhead bin fracas, etc. According to one major airline CEO, "After four weeks of cockpit training and highway and railroad track spotting (the simulators are reserved for our regular pilots) they just come in and do their thing; they're happy, we're happy, and they work cheap. And it gives our jaded passengers the first real flying excitement they've had in years. Just like in the old days. In fact, they're absolutely wild-eyed and speechless upon arrival!" One of the first to try out the new program was chapter member Bob Olney, N5NT, who soloed in a McDonnell-Douglas MD-80 and who may well be in the left-seat on your next flight subbing for a vaca-

tioning, sicked-out, PTA attending Captain. His evaluation? "Being an airline pilot sure beats being a Wal-Mart Greeter!"

Newly elected chapter president Baity Bartel, W2LQ, is a retired electronics engineer recognized for an inquisitive mind and impressive aptitude for designing and building equipment used worldwide in the commercial market. Long active as a mentor in the Boy Scouts, Baity, according to legend, once inadvertently launched an astonished Scout into an unplanned elliptical orbit. The Tenderfoot was assisting him in a demonstration of his then-latest scientific invention: The Baity Forward Thrust Reversed Polarity Magnesium-Enhanced Toggle Switch, designed for The Hallicrafters Company. Baity's generous plan to out-source the manufacture of the device to the Scouts as qualification for an electronics merit badge was politely deferred by the BSA. Note: The BSA satellite Tenderfoot 1-6BSA is in an altered geo-synchronous orbit.

Bob Olney N5NT - Recording Secretary

Chapter 45, Citrus

Fall has arrived and with it the return of the "snow birds". Soon the meetings of the Florida Chapters will be at full strength and we will be regaled with opinions that the 90 plus degrees temperatures north of the Mason Dixon Line are somehow cooler than 90 plus degree temperatures here in Florida.

The license requirement that the applicant have a certain knowledge of CW has been under attack during the past few years. It is argued that the use of CW in communications is archaic and has no use in the modern communication technology, and is being used to discourage young, more sophisticated people from becoming interested and participating in Amateur Radio.

The use of computers to generate and receive CW signals in conjunction with a traditional amateur station, has taken a great deal of the individuality away from CW communications. The only limit to the operator's speed is his ability to type, and the "fist" by which we could recognize an operator is missing.

Bob Cumming, W2BZY, Hal Prosser, KK1B, with several members of Citrus Chapter, and other local amateurs, have formed The Central Florida CW Group. They applied for, and the FCC issued the Group, the call sign W1SE. This had been the call of Lee Aurick, a Silent Key member of the Chapter, who was a very good CW man. The object of the Group is to promote the use of CW as a viable part of Amateur Radio. It has been suggested that the Group be made a part of the Chapter.

Citrus Chapter meets the third Wednesday of each month at the Picadilly Cafeteria, 1840 East Colonial Drive, Orlando for a luncheon meeting. The Group usually begins to gather about 11:30AM, have lunch and then conduct the business meeting. All amateurs are welcome to join us at our meeting. The fellowship is warm, the food is good and the prices are reasonable. Our repeater, W4PLA, operates on 147.195mhz with a directed net at 1930 hours local every Tuesday.

Paul A. Turner W1DLP - Secretary



Bob Olney N5NT recently soloed in an MD-80 jetliner under a new program created to alleviate airline pilot shortages.

Chapter Reports

Chapter 48, Treasure Coast

Greetings from Vero Beach, we welcome new members Jack Caughey, KO4TG, and Nick Limberis, K400L as well as transfer member John Reinket, W4CU who joins us from chapter 45, the Citrus Chapter in Orlando. Welcome John.

Recent upgrades in our ranks are Craig Stewart, W4PHJ, Burt Lawton, W2JLO, Joyce Anderson, K4EER, and Woody Anderson K4EBK. Congrats to all.

The summer doldrums set in with the migration north of our SNOWBIRD members, but they are on the way back (must be getting cold up there) and we are planning some new activities. Everyone wants another German night; also in the works are the Treasure Museum in Sebastian and perhaps the Center for the Performing Arts in Vero.

Our President Joyce, K4EER and her driver will attend the National QCWA Convention in Toronto, any excuse for a trip, and these conventions are a worthy excuse, the last one in St. Louis was super, and Ottawa was great.

We have an informal meeting every Thursday at Hodges restaurant in South Vero Beach; starting about 11 AM, if you are in the area please join us.

K4EBK - Secretary/Treasurer 561 388-0255 or k4ebk@juno.com

Chapter 49, Peach State

The Chapter 49 summer report was omitted in the Fall Journal. The Journal apologizes for any inconvenience it may have caused.

The Chapter 49 summer meeting was a picnic held at the home of Mary Whatley, W4NZJ. Attendance was light with 5 members and 4 "Friends", but Mary's neighbors helped to reduce the ample supply of great hamburgers, salads, desserts and cold drinks available. Everyone had plenty to eat and some of us ate too much as usual! There was no formal program for the meeting, but several show-and-tell items were available for inspection. The Hartley oscillator built by "Friend" Lawson AE4GQ, who was unable to attend, was brought along by K4SZ along with a 6m SSB Handheld and some VHF transverters. K4HBI managed to unload some boat-anchor test equipment on the unsuspecting that helped to clean out his workshop area. Doug, KT4XE brought along some lap-top computers to the swap fest. A good time was had by all and many thanks to Mary for hosting this great summer picnic meeting for the Chapter.

Bob K4SZ and Duane K4PTT operated the June VHF Contest at the K4SZ QTH and also operated Field Day using the W4QQ club call class 2A at K4SZ's farm property, joined in both adventures by AE4GQ and W4RLW. Mike K4HBI and Susan AF4FO operated Field Day with the GARS club W4GR class 8A, along with other Chapter 49 members. Wayne W9BKJ operated Class E on Solar Power from his back yard.

Correction to last issues report: Wayne W9BKJ received a 60-year ARRL membership plaque, not 50

as reported. The secretary has been admonished for his mistake.

The next Chapter 49 meeting is scheduled for Noon, September 16th at Ryan's Steak House in Norcross.

The Chapter 49 fall meeting was held on Sept. 16 at Ryan's Steak House in Norcross. Attendance was better with 19 at this meeting. President Mike K4HBI began the meeting calling for member and guest introductions and all those present signing the "We missed you at the meeting" greeting cards. A moment of silence was held in remembrance of our recent silent



Chapter 49 Officers for 2000-2001 with guest speaker Wes Lamboley W3WL. L to R: Bob K4SZ Sec/Treas, Wayne W9BKJ VP/Net Mgr, Wes W3WL, Mike K4HBI President.

keys including Clay Griffin W4DXI. Mike mentioned the nice article in the latest Chapter 49 newsletter by member Ed Bigbie W4MMQ remembering Clay and the Georgia Cracker Net. Also mentioned was the fine member profile of/by W9BKJ. Thanks Wayne and let's see some more members submitting their profiles for the newsletters. Mike thanked Mary W4NZJ for hosting the last meeting/picnic at her home and the members for offering and manning tables for Chapter 49 at the local North Georgia hamfests this season. VP Wayne W9BKJ reported net check-ins have been down, but probably due to the summer activity season. Jerry W3CDE volunteered to be the assistant net manager when Wayne asked for one. Apparently anything goes to keep K4SZ from calling them!! Several members volunteered to man a table at the Stone Mountain/Lawrenceville Hamfest in November. "Friend" Lawson AE4GQ won the door prize drawing. Lawson got a copy of the book "Keys, Keys, Keys" by Dave Ingram, an interesting pictorial history of bugs and straight keys.

Congratulations to our newest member! Mary Whatley W4NZJ is now an official QCWA and Chapter 49 member. After being associated with Chapter 49 for over 15 years she reached her own 25 years as a ham this summer. Mary has been an active participant as a "Friend of Chapter 49" longer than many of us have been members of the Chapter. Her many friends have been helping to repair the antennas and feedlines at her home and get her back on the air with us too. A



Chapter 49's newest member, Mary Whatley W4NZJ

picture of Mary taken at the meeting accompanies.

Wes Lamboley W3WL/A52GB presented our program for this meeting. Wes gave a most interesting slide show about the country and people of Bhutan and the recent A52A DXpedition. Several of the Chapter 49 members managed to work the DXpedition and are proud holders of A52A QSL cards. Thanks to Wes for the great program and pictures.

The next Chapter 49 meeting is scheduled for Noon, December 2nd at Ryan's Steak House in Norcross. This is our annual holiday party meeting with the members and spouses gift exchanges.

Bob Lear, K4SZ, Secretary/Treasurer,
k4sz@arrl.net

Chapter 51, Tex-La Golden Triangle

Our group met at Dorothy's Front Porch Seafood Restaurant at noon on the first Saturday of each month



Wes Spencer, AC5K shows a handcrafted "Bug" from his collection of over 80 home-brew keys; usually one-of-a-kind.

with from 26 to 37 members and guests present. At the August meeting Captain Glenn Tronstad, W5MSX reported on his recent visit aboard the Texas A&M School Ship The Texas Clipper during its visit to Port Arthur. Glenn sailed on the Clipper for 5 summers as radio operator in the early 1980s, introducing countless Aggies to Ham Radio through phone patches back home. Wes Spencer, AC5K told about his hobby within a hobby, collecting Morse code keys. He has limited his collection to home-brew, usually on-of-a-kind, keys. He showed 5 examples from his collection of more than 80 keys. He says that keys are becoming harder to find, but there are still some bargains out there if you look carefully. At the September meeting Steve Gomez, KE50 showed a WWII BC611F Walkie Talkie and 1941 Zenith Transoceanic that he had refurbished. Chris Boone, WB5ITT told about his recent visit to ARRL Headquarters in Newington where he found the name of one of our silent keys, Pete Vela - K5YLU, on the monument honoring ham operators who died while performing public service. Pete was killed in 1983 when the Jefferson County Airport roof collapsed during a storm while he was providing communications for the Bum Phillips Golf Tournament.

Dub George - Bulletin Editor

Chapter 63, Central Oklahoma

Things have been slow for our Chapter 63 during the past Quarter. Gene Nailon, K5DLE, our Net Manager, is slowly recovering from his "Open Heart Surgery". It slowed him down for about ten minutes. Gene also received a letter from National, informing him that he had won the recruiting contest again this year. That is three years in a row that Gene has won this honor. CONGRATULATIONS Gene.

Sorry to report that our Chapter 63 has one Silent Key — David A Ferguson — K5SXJ of McCloud, OK. Fergie will be missed by his family and friends.

Our QCWA Chapter 63 was well represented at the Ham Com at Dallas, TX this year. Many of our Chapter members were there, as well as a lot of Hams from Oklahoma in general. I had the pleasure of meeting and talking again with Jim Walsh — W7LVN, our General Manager and the QCWA President Gary Harrison — K0BC

Speaking of Gary — K0BC, he stopped in Oklahoma City and had dinner with Larry — W5EIU (our President) and Gene — K5DLE (Net Manager) on the way to Dallas, TX and the Ham Com.

Larry — W5EIU, Gene — K5DLE, and I took part in Field Day with the Choctaw Amateur Radio Club. Larry and Gene worked 106 CW Contact in 5 hour period.

At our last Quarterly Luncheon we had a good turnout and our next luncheon is scheduled during the Ham Holiday on July 29.

Norman M. Wilson W5FLO - Secretary/Treasurer

Wrinkles

**Something other people have.
You have character lines.**

Chapter Reports

Chapter 64, El Paso

In the last Journal, we reported the death of our member, Tisha Young, W1NUO. Now we have to report that 3 weeks later her husband, Norman, W1HX also became a silent key. They moved here from Melrose, MA where they had many friends. Norm was a pioneer in amateur radio and a licensed ham for nearly 80 years. He worked as an engineer for CBS for many years. A contribution was made by our chapter to the QCWA scholarship fund in each of their names. We'll miss them.

Our annual picnic was held September 23 at the home of our chapter Secretary-Treasurer, Manny Gonzalez, W2BFI, and his XYL, Sharon. As usual, it was an evening of good food, with good friends, in beautiful El Paso weather. There were 22 in attendance.



Big, Quick and Ugly Tex Burdick W5BQU (l) is feted at a special gathering of Chapter 64 members to celebrate his 100th birthday. Proudly looking on is his wife Juanita.

Another special gathering in September was the celebration of the 100th birthday of our charter member, Tex Burdick, W5BQU. Tex uses the phonetics of Big, Quick and Ugly and has ham friends all over the world. You'll find him mainly on 10 and 15 meters. Tex had a windmill installation business and flew his own planes to take supplies to the ranchers. He's a great story teller and a joy to know.

Tex and Juanita Burdick

Chapter 65, Niagara Frontier



Left to right: Monthly luncheon at Flying Tigers Restaurant. Tom W2QI, Bob W2AET, and Norm W2VEX.

Our Annual picnic was held 22 July at N2DC Dan's and Rita's home in East Aurora. 21 were in attendance.

Norm W2VEX and Bill W2EWT put Chapter 65 on the air during the September QCWA QSO Party.

We are sorry to report a Silent Key, Norm Strohmeier, W2VRS. He also was a member of RAWNY.

Come join us at the Flying Tigers restaurant near the airport runway for lunch on the 2nd Saturday of each month at Noon. The photo shows several Chapter Officers in one of the "bomb-damaged" rooms at the restaurant.

Ken Palmer K2FJ - Secretary

Chapter 70, National Capital

The years sure have brought a lot of changes to radio! To reflect on those earlier days can bring a smile or two to an otherwise serious face.

This happened at our dinner meeting recently. Each autumn we invite spouses/friends to join our activities at a QCWA meeting. Last year we looked at what the future holds with digital radio. This year we went back in time taking a look at how it use to be! Seems funny now. At least the reaction of the group, to Bill Beaton's description of several happenings in those days was not just a smile or two, but bouts of laughter! Calling Saskatchewan home, Bill was able to provide quite a tale about the prairie farmers and radio way back when.



Guest Speaker Bill Beaton along with Barc Dowden VE3TT displaying a working model of a 1924 radio with a horn speaker.

I can't tell it like Bill - so I won't try. But maybe your chapter could have a memorabilia night sometime, if you haven't already. It's fun!

Chapter 70's meetings take place four times annually and include dinner. Many of our members continue to meet at a Thursday morning breakfast throughout the year. Along with those get-togethers, the net



Bud Kingsbury, VE1ZR, of Halifax, NS receiving his 50 year pin and certificate from Ray Wilson, VE9WI at St John, NB

on Thursday evenings and our web page, all combine to keep the group in pretty close contact and up-to-date on the latest in the Amateur Radio field.

Joan Powell VE3ZC - Secretary /Treasurer

Former Chapter 90, Arkansas



Dale Graham W5RYM receives his 50-year certificate from his good friend Ray Yarbrough W5YGX who recruited him into the QCWA.

On the second Tuesday of each month the American Legion meets here in Green Forest. Before the last meeting the board asked me to make a presentation at that meeting. I agreed. They had received a fifty-year certificate to be given to my good friend Dale Graham, W5RYM. The certificate was from QCWA noting Dale's fifty years as a Ham operator. I was glad to make the presentation since I was the one who recruited Dale into QCWA while I was Secretary of Chapter 90, Arkansas.

Ray Yarbrough W5YGX

Chapter 91, Vic Clark

Bill Miller K4MM - Silent Key

Bill was one of our chapter's founders. Bill died just a few months ago. We fortunately have a wonderful biography of him in our chapter's "bio book," which has been created by Dick Rucker, KM4ML.

The Vic Clark Chapter 91 continues to be very active! In the past quarter, here's what we've been up to:

July Meeting-Featured Speaker: ARRL's Chris Imlay

President Lew Bradley, W4SWP, welcomed 23 members and guests.

Bill Miller K4MM, SK-Lew asked for a moment of silence for nationally known member Bill Miller K4MM, who became a Silent Key on 8 July. Very 73, Bill —thanks for being a good friend and for your many contributions to Ham radio.

VP John Johnston, W3BE, introduced Chris Imlay, W3KD, ARRL's General Counsel. Chris has held this position for about 20 years and has "been involved in every amateur-radio related court case since 1979."

Chris opened with some heart-warming stories about Vic Clark, W4KFC, with whom he had the privilege of traveling when Vic was ARRL president. "Vic was a gentleman, good friend, and fun to travel with."

Chris gave detailed comments on two current issues, the attempt to harmonize the 40-meter-band allocation worldwide, and the need to get a preemptive agreement on restrictive antenna covenants.

Chris discussed the differences in frequency allocations between (a) Region 2 (North and South America), and (b) Regions 1 (Europe) and 3 (Asia). The short-wave broadcasters also would like worldwide harmonization for their services above 7.2 MHz, so there is some desire for worldwide harmonization of these bands. However, third world countries depend on the fixed-service 6.9-to-7.0-MHz segment and don't want to give it up.

Chris talked about PRB-1 and the ARRL's attempts to strengthen it. PRB-1 preempts attempts by local jurisdictions to unreasonably restrict the installation of amateur radio antennas. Without it, the Virginia statute on amateur radio antenna heights, which Chris says is the best such statute in the nation, wouldn't have come to pass. The League has been unsuccessful in getting the FCC to address covenants, primarily because of FCC's preoccupation with other matters, and not because the FCC disagrees with the ARRL's position.

Auction-Auctioneer Ray Johnson, K5RJ, did very well and by the time the dust had settled, a total of \$57.00 had been added to our coffers.

August Special Event-Annual Picnic

What a super time we had! The weather could not have been more delightful, the food could not have been more scrumptious, and the company could have been more congenial only if you had been there! As it turned out, the 23 of us did quite well, eating most of the food that you would have eaten had you been there.

September Meeting-Featured Speaker: FCC's Riley Hollingsworth, K4ZDH

Chapter Reports

President Lew Bradley, W4SWP, welcomed 28 members and guests.

The chapter voted to continue our annual donation of \$100 for scholarships, half to F.A.R. and half to QCWA.

VP John Johnston, W3BE, introduced our guest speaker, Riley Hollingsworth, K4ZDH, who has served for 27 years with the FCC and is currently FCC's chief rules enforcement officer for amateur radio and some of the other services.

Riley began by saying that enforcing the rules for on-the-air operations is a serious business these days. FCC Chairman Kennard has taken the position that, "if we have rules, we have to have the courage to enforce them."

Riley talked about the new Enforcement Bureau that has been in existence for the last 10 months; its results are striking. For example, some 200 tapes that purported to contain on-the-air violations had accumulated and they all have been worked through. The rate at which new complaints have been coming in has dropped off markedly. Riley said that 148 warning letters have been mailed out, resulting in about 90% compliance. The remaining bad apples are being dealt with through the courts. He gave status reports on a few of the more notorious cases.

Riley noted that due to the widespread availability of inexpensive, broadband scanners, news reporters and others in the general public regularly monitor the ham bands. The impressions they carry away and report to others can either help or damage the reputation of the service and the political support that it engenders. Meanwhile, the battle to hold onto the spectrum enjoyed by the amateur radio service continues.

Auction and other fundraisers-Treasurer Nelson Seese, W4BHD, reported an income of \$283!

So much for the past; for the upcoming quarter, we have the following planned:

September: F.A.R. Fest 2000, Bowie, MD. Chapter 91 will have a recruiting table from 8 AM to noon.

October: field trip to the National Cryptologic Museum; lunch afterwards at the Ft. Meade Officer's Club.

November: election of officers for 2001, plus a surprise guest speaker.

December: Holiday Luncheon with many door prizes and several acts of entertainment.

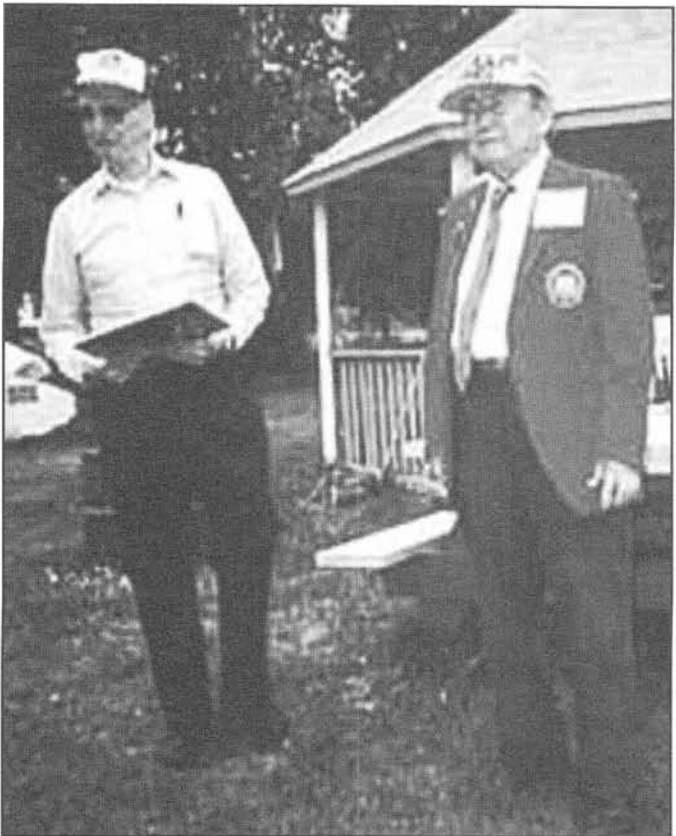
Jim Wilcox W3WV/AFA2EX

Chapter 92, Northern Lights

This summer the Northern Lights Chapter of QCWA hosted two family picnics in the South Central portion of the state of Alaska. The first event on Saturday, June 10th, was the traditional Chapter Field Day and potluck picnic held in the Anchorage Hillside district on the spacious domain of Chapter President, Jim Tvrdy, KL7CDG.

The second family picnic was a first for the Northern Lights Chapter. Responding to distance concerns expressed by several Chapter members who live an hour north of Anchorage in the Matanuska-Susitna Valley, the Chapter hosted an additional major event at the Alaska Transportation Museum at the new Wasilla Airport. This was a joint function conducted with the membership of the Alaska Regional Chapter of the International Society of Air Safety Investigators. The combined attendance

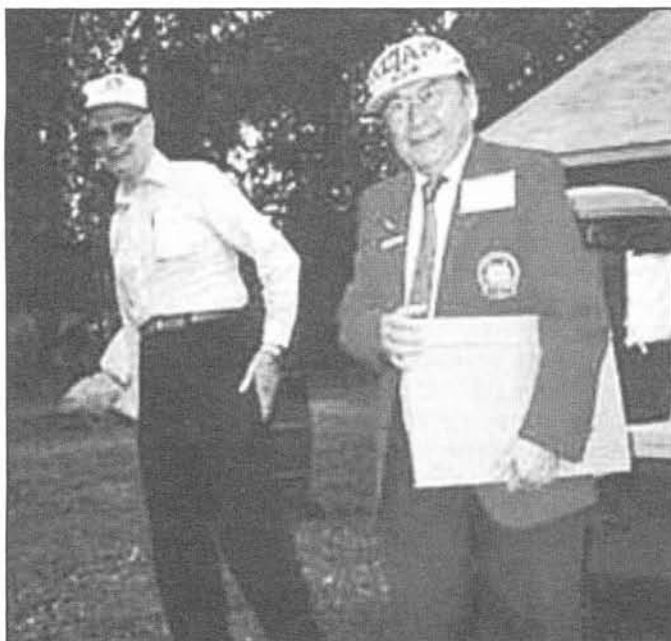
peaked at more than fifty members and families from both organizations. The most significant moment for the QCWA attendees was the presentation of the QCWA 75-Year Plaque to Bob Hisamoto, KL7AM, the founder of the Japanese Amateur radio League (JARL). This distinguished Amateur Radio operator (age 92) and his wife drove 600 miles round trip by Volkswagen bus down from Fairbanks, Alaska to receive this momentous award.



Jim Tvrdy, KL7CDG, President of Northern Lights Chapter getting ready to present a 75 year plaque to Bob Hisamoto, KL7AM.



Jim Tvrdy, KL7CDG, President of Northern Lights Chapter, presenting the plaque to Bob Hisamoto, KL7AM.



Jim Tvrdy, KL7CDG, and Bob Hisamoto, KL7AM scurrying away after the presentation due to a heavy and sudden rainstorm.

There were numerous activities for the enjoyment of all at this entertaining event. The keynote speaker was the well-known Arctic explorer and ham, Lee Wareham, KL7DTH. Prior to his presentation Lee invited everyone out onto the flight line to examine his specially modified long-range Cessna 185 with which he has repeatedly flown to the ultimate destination - the North Pole. The topic of his lecture was his recent rescue mission from the lightly frozen seas at the North Pole of the crew and passengers of a giant Soviet-designed biplane, the Antonov AN-2, that was sinking through the icecap. Those people that he could not personally recover were subsequently picked up by a Canadian Forces rescue aircraft. As you might expect, Lee's communication via Amateur Radio with the base support station of Jerry Curry, KL7EDK, played a major role in the successful conclusion of this harrowing mission.

As a good host Chapter 92 was pleased to charter free admission to the Transportation Museum for our members and guests. The most enlightening exhibit inside - from an Amateur Radio point of view anyway - was an entire wall of exhibit cases filled with antique tubes and radio equipment used in Alaska's early Territorial days. These items were donated and labeled by the Northern Lights Chapter, and a QCWA banner is prominently featured within this extensive display. The food was mouthwatering as expected, primarily because Chapter President KL7CDG kept the barbeque grill tuned for maximum output. The most enjoyable portions of the picnic for many - particularly the younger set - were the complimentary train rides (paid for by Chapter 92) on the Transportation Museum's Live Steam Railroad. The extensive layout rambles for miles through the woody back country across trestles, down

inside gorges, and through the locomotive maintenance yard, complete with a working turntable.

In summary, both events were truly excellent opportunities for fellowship, education, and family enjoyment. Numerous QCWA national and Chapter renewals were received as a result of these activities. Once again the Northern Lights Chapter of QCWA has provided a public service to Alaska while promoting membership growth in this worthy organization.

Craig Bledsoe KL4E - Chapter Secretary

Chapter 102, Dakota



Buck Potter KØODY at his station operating position.

Chapter 106, German

In May we had our yearly chapter meeting. This time it was held in Erlbach in a beautiful part of Germany, the Vogtland. 29 Members and their XYL's gathered in the hotel to take part at the meeting. On Friday 12th of May we took a tour by bus through the Vogtland looked at the nice landscape and visited Plauen, the main city of that area. We stopped at the

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Chapter Reports

biggest railway bridge of the world made of bricks; 29 million bricks were necessary to construct this high viaduct. In the evening we had a wonderful dinner and after that, the members of the QCWA held their official meeting in a conference room, separate from the accompanying wives. As this year no election had to be performed, it was a rather short meeting. Helmut Poestges, DL6VL received the QCWA Gold certificate for 50 years of license, all other chapter members, who are eligible for the same certificate will receive it via mail. As a special result our chairman Siegfried Prill, DC9XU announced, where the next yearly meeting should take place: in 2001 we will have that meeting in Gersfeld in the Rhoen between 18 and 20 May.



German Chapter members and XYs at a stop in Marienbad (DK). Photo by Werner Lembcke DL7DH.

The next day we drove by bus through the nearby part of OK-Land and visited the monastery Tepla and the famous spa Marienbad. Many of the buildings have been restored during the last years and they look brilliant in their various colors. All participants were glad and satisfied, that this meeting had such a interesting program and asked the secretary to provide a similar program for the next yearly meeting.

Werner Lembcke DL1ZC - Secretary

Chapter 110, Kansas

August 27, the Kansas Chapter 110 met at Salina during the Kansas State ARRL convention. Prior to the meeting National President Gary Harrison K ØBC and his wife were guests of the club for lunch, which was well attended.

At the meeting, the club voted to buy a Chapter 110 banner.

President Don Fitzgerald appointed Ed pick WØBBM, Concordia, chairman of the nominating committee. Other members of the committee appointed were Alvin Wiesmann, WA ØYXK, Salina; and Lester Look WAØGRM, Hays.

The Kansas Nebraska Radio club picnic is scheduled for October 7 at Concordia, and the Kansas Chapter will hold a business meeting at that time.

President Harrison spoke to the meeting about the upcoming National QCWA convention in Toronto, and the fact that 6 new board members and new treasurer will be in attendance. He indicated several members had already indicated they plan to attend the meeting.

Wendell Wilson W ØTQ - Secretary

Chapter 112, Yankee

Yankee Chapter members, along with members from three of the other New England Chapters, enjoyed our annual summer picnic, on July 29, held this year at The New England Wireless and Steam Museum in E. Greenwich, RI. Thirty-five members and spouses attended. Curator of the museum, Bob Merriam W1NTE, and his XY, Nancy, were our gracious hosts. Bob provided background information on the various displays of both radio equipment and steam engines owned by the museum. A demonstration of an old spark-gap transmitter was a highlight of the day. Tours through the relocated costal radio station "P J", originally owned by Walter Massie, is an experience that can't be repeated anywhere else. Originally located at Point Judith, RI, the building, and much of the original wireless equipment, was moved to the museum site in 1983. Bob is a member of the Yankee Chapter and a Life Member of the QCWA.



Three of the helpers at the Yankee Chapter QCWA Table at Boxborough. L to R: Tony WAIENO; Joe N1JS; Charles (Chapter Vice-President) WIDOH.

August 26-27 brought the ARRL Boxborough convention. Attended by hams from New England and even New York, it's held every two years. The convention provides a chance to see what new equipment the manufacturers have released as well as providing lectures on various ham related technical subjects. Yankee hosted the QCW A table and were able to sign up eleven new QCW A members as well as several renewals. Thanks to those providing help at the table which included: Tony Manna WA1ENO; Joe Santangelo N1JS; Charles Lukas Jr. W1DOH; Harold Chase W1EES; Was Randles W4COW; and Blanche Randles W4GXZ.

Chuck Walbridge, K1IGD - Secretary



Chickens
Something you eat before
they are born and after
they are dead.

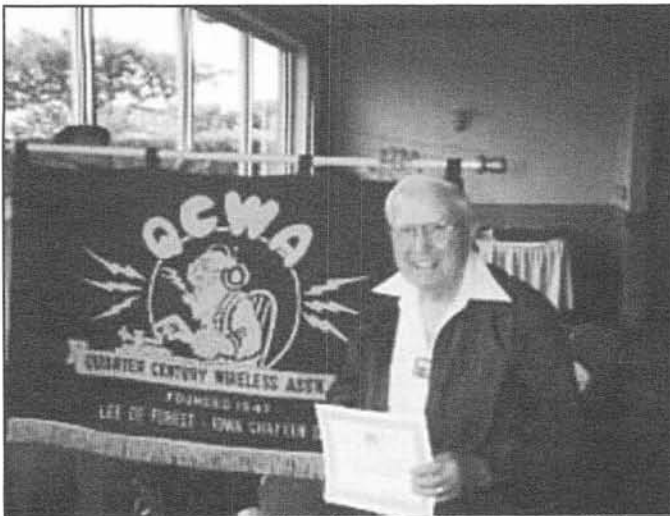
Chapter 122, Lake Erie Tri-State

Members of the chapter who can be counted on as faithful in attendance and a few others met at the Luncheon/Meeting in observance of the advent of LETS twenty-second year. It is hoped that circumstances will allow us to be fortunate to be around to celebrate the Quarter Century Anniversary of Chapter 122 of the QCWA. Following a luncheon at Hoss's Steak and Sea House, and a brief meeting to discuss plans for the coming year, the featured speaker, Andy Washy, K2ISN, addressed the group on special needs of sightless hams, mentioning the taped news items and contents of the journals of several amateur clubs that are provided to sightless members on request. He described communication aspects of Braille and the use of a Braille machine. The usual Q&A session followed which answered many questions regarding blind operation of ham equipment. It was reported that the certificate awarding Bert VanHouten, W3TPW the status, President Emeritus was mailed to him in Port Charlotte, Florida. About the same time the award was printed, word was received that Bert's wife Olive had died; she was active in the chapter and contributed to its projects. Other than routine duties of office, his "above and beyond" offer to volunteer as substitute local net control, and nearly unbroken check-in record, was good reason to present the QCWA Meritorious Award Certificate to Sid Stacey, W3MMJ. One noticeably absent member was Joe Yusz, W3KKT, who is very ill and has been in a coma for quite awhile. A card was sent wishing a "Speedy Recovery".

Paul Gerbracht, W3QPP

Chapter 123, Iowa

Chapter members Maurice (Doug) Dougal, WA0UVH, of Lake Park, Iowa, was elected the new president, and Bob Mohr, K0EFK, of Sioux City, Iowa, was elected the new V.P., and Larry Wacha, K0EDO, of Garwin, Iowa, was re-elected for another term as sec/treas at our last business meeting in Sioux City, which was held after a noon luncheon there in conjunction



Darrell Stevens WA0EAY received his Century Club Certificate.

with Hamboree 22 and the Midwest/Dakota ARRL convention. There were 47 members and guests at the luncheon, with 9 Chapters represented. Chapter 77 guests from New Jersey traveled the farthest. Thanks to everyone for being there.

We were selected to be the "teller" chapter for this year's national election. LeRoy "Baldy" Baldwin, W0OFY, volunteered to be the committee!! He, and of course his wife Ruby I am sure, got in on the fun, and they both spent much time and effort and did a great job! Thank you both!

Several members received awards this year. Darrell Stevens WA0EAY, the only one present at the business meeting received the Century Club Award. Members receiving awards not present were Albert Victor K0HPP, 65 year and also Century Club; Warren Klehfoth, W0JJP, 65 year.

Net activities slowed some this summer as usual, but are beginning to pick up as we get into fall. We meet Saturday mornings at 07:30 on 3940. K0EDO and W0RPV are the net controls.

Larry Wacha K0EDO - Secretary/Treasurer

Chapter 128, Pelican

During the summer months of June, July and August Pelican Chapter 128 held informal meetings.

President Jarvie Mullins WA4DJH called the September 13th meeting of Pelican Chapter to order at 2:11 P.M. The Pledge of Allegiance to the flag of our country was given after which Don Bice W4PCO was called on to give the blessing for the food. Don informed everyone that Father L. Charles Tardiff W3EHG who has been a long time QCWA member, #18369, passed away Friday, September 8th and, in his memory, thought it would be appropriate to give the blessing which was written by Father Chuck for the QCWA.



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Chapter Reports

The Secretary was called on to read the minutes of the May 10th meeting and they were adopted as read. Jarvie then thanked Ken and his wife Bernice for the fine job they did in reporting our activities in the QCWA Journal.

Pelican Chapter is saddened to report two silent keys in September. Father Chuck W3EHG, Member #18369, who for over 30 years did a yeoman's job for his church mission on the west coast of Africa. He made many contacts and managed to respond to 16,000 QSLs from one QTH when he lived in Tanzania.

Pete Odell W8PFO, Member #20120, passed away September 10th. He was also a long time member of Pelican Chapter and up until a couple of years ago he and his wife, Nell, rarely missed a meeting.

The upcoming QCWA QSO Party to be held September 16-17, 2000 was announced.

The Tampa Bay QCWA members decided that they would use 147.550 as a simplex frequency and backup if the repeater went down. The Tampa Bay QCWA members meet every Saturday morning on 145.290 -6 at 9 A.M.

Pelican Chapter meets the second Wednesday of each month at Po Folks Restaurant located in the shopping mall on the corner of 34th Street N. and 22nd Avenue N. We gather in the room reserved for us at 11:30 A.M. and orders are taken for our meal after which the meeting proceeds.

Kenneth H. Johnson WA4TOP -

Chapter 150, Delmarva



QCWA members 1st row left to right John NQ4Q, Hank W3PCZ, Frank KA3UUC, George W3PVO 2nd row Ray W3SWC, Don K3LGC, John K3PFW, Bill W3BY, Tom W3LOV.

Delmarva Chapter 150 held its annual picnic on July 13, 2000 at Killen Pond State Park, Delaware. Thirteen hams and friends enjoyed a great picnic lunch and outstanding weather. George W3PVO provided coffee and doughnuts for early arrivals.

Tom W3LOV - Secretary/Treasurer

Chapter 154, Leo I. Meyerson

Our chapter was dark for the months of June through September; the hottest part of the year here in the Coachella Valley.

Lew McCoy, W1ICP, Silent Key, July 31, 2000.

The untimely passing of Lew McCoy, W1ICP, saddened the membership. We were fortunate to have Lew as a speaker at our Spring Luncheon this past February, and Lew in typical form provided another interesting and provocative talk on antennas. All who knew him, either as friends or through his writings and publications, will miss him.

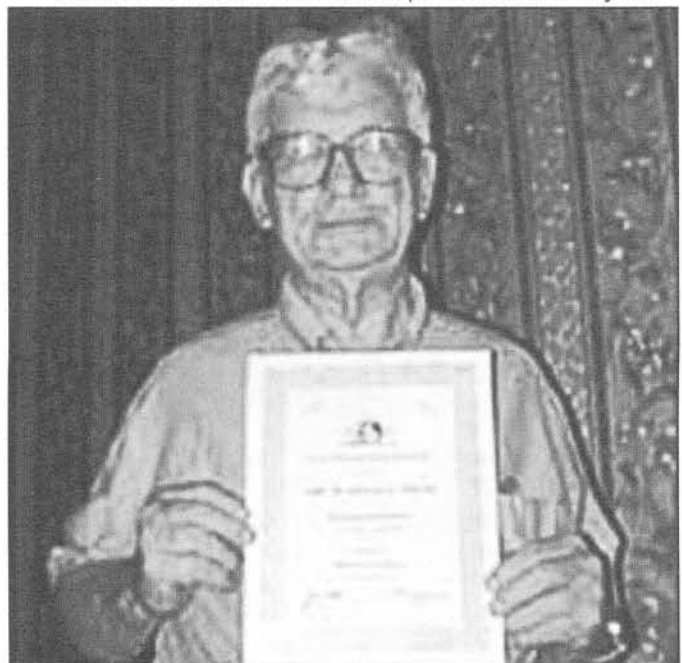
As we begin our fall season luncheon meetings, we welcome back all the snowbirds and local residents who leave to escape our desert summers. Our first meeting will be held on October 19th at Marie Callendar's restaurant, Rancho Mirage. As always, all Members, their spouses, friends and other guests are welcome.

George M. Underberger W6WAS - President

Chapter 158, Central Arkansas

The chapter is interested in becoming reactivated but we will need lots of help. We probably have a lot of hams who qualify for membership but don't know who or what to do next. Please contact Bob Ideker, WB5VUH, at 501/868-8847 for more details. If enough interest is shown, we will set up a lunch at the Baptist Hospital (date pending) to discuss the particulars. Let's get active again by encouraging others to get involved with us.

Russell Graham W5RDT, was presented his 50-year



Russell Graham W5RDT, received his 50 year award. Both he and his brother, Robert Dale W5RYM became hams on the same date. Next month, we hope to have a picture of Dale at the time of his presentation. Congratulations to both on achieving this milestone and we look forward to the next 50 years of contributions from both of you.

Bob Ideker WB5VUH

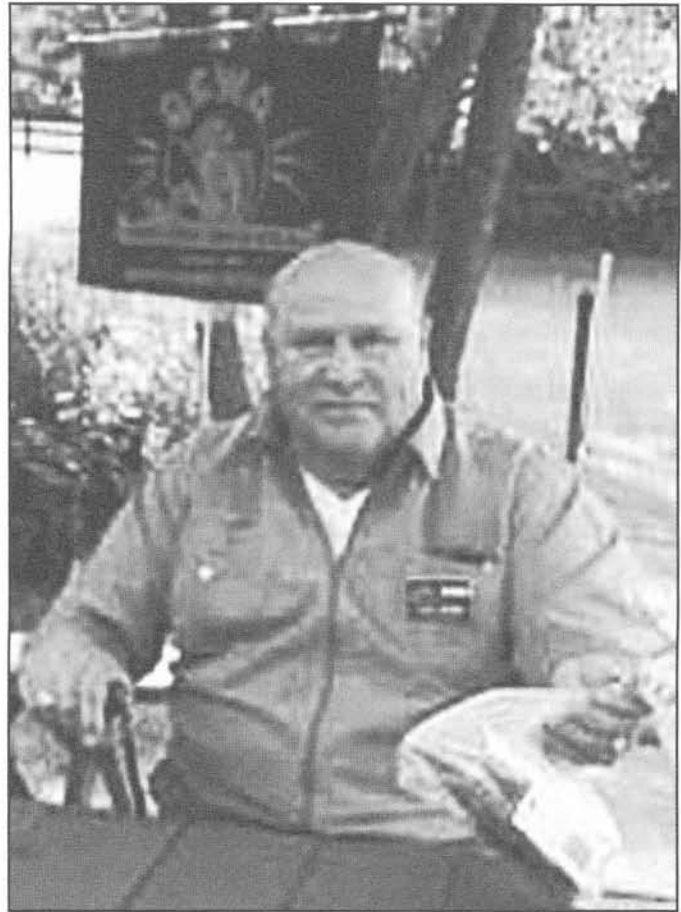
Chapter 162 Southern Wisconsin

Our August picnic fell on a picture perfect day. As our entrees sizzled on the grills, we sampled the assortment of wonderful gourmet delights that each brought to the gathering. The corn, roasted to a golden hue, dipped in butter, and salted to satisfaction was outstanding. Watermelon, provided by Chuck Knotek W9GKM, put the finishing touches on a very enjoyable meal. Chapter 162 would like to thank John Wozniczka N9RGV for his donation of a PSK-31 system. Lloyd Gorsiski WB9RGO, won the setup and accompanying software.

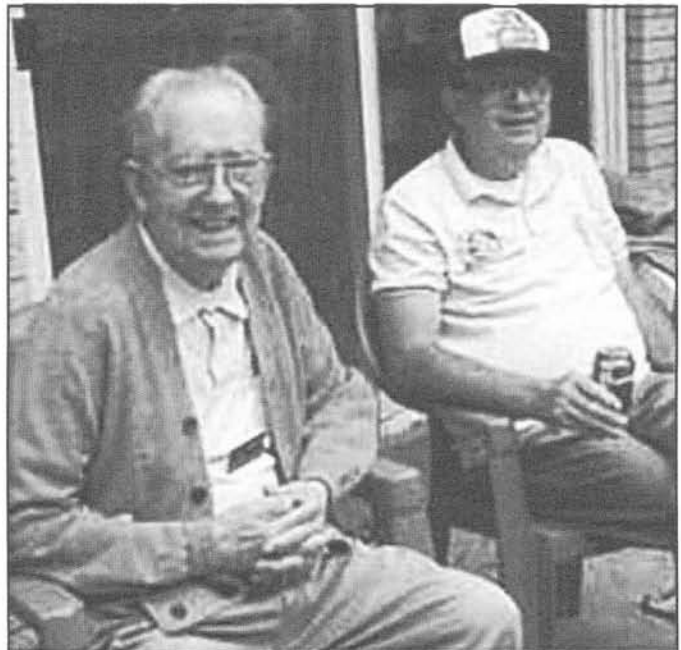
On the business side of the day's activities, a motion to change our annual meeting date to October 22, 2000 was made, seconded and approved. Our president will be in Toronto attending the International QCWA Convention during the period this event was originally scheduled (October 15th). The meeting and election will take place at Bentley American Grille at the Marriott Hotel, 7100 Washington Avenue in Racine on Sunday, October 22nd beginning at noon. Bentley's wonderful buffet will be a great joy to participate in since the Chapter picks up the tab for each attending member and guest. There are four Director positions up for election this year. The nominating committee - Ed Konicek W9NVK Chair, Chuck Knotek W9GKM, and Ron Fox K9AKH - submitted the following slate of candidates for our consideration: Lloyd Gorsiski WB9RGO, Spencer Clope W9LDH, Chuck Knotek W9GKM, Fern Fisher W9LCJ, Herb Ladwig W9PHJ, and Ken Knoff N9NBC. The four leaving office are: Ed Konicek W9NVK, W9LCJ, W9LDH: and Bill Komistra W9OVZ (Silent Key). The three remaining Directors, Larry McCauly WA9JMO, Bob Jensen W ØWLN, and Ron Fox K9AKH, will join the four newly elected Directors to select the officers for next year. Post card reminders will have been sent to all members by the 10th of October.

A final piece of business dealt with Field Day 2001. The Chapter will again operate QRP battery at Decision Farm, and Ken Knoff N9NBC offered his guidance once more as chair of the event.

On the 16th of September, several chapter members traveled to the western end of Kenosha County, in Southeastern Wisconsin to show the wonderment of Amateur Radio to a group of youngsters at a local Boy Scout Camp. Small problem, the road show gang was told to be there on the 16th and the youngster were told the 23rd. Not to be discouraged, and since they were already in the area, the group decided to sample the culinary skills of a nearby restaurant. While walking up the large stoned gravel driveway, Spencer Clope W9LDH dropped his 33rd Degree Masonic Ring. The Ring, awarded 37 years earlier, was a very prized possession. And fate, on that day, smiled down on Mr. Clope. When Spence returned home, he received a call from a waitress at Restaurant he had just dined at. She said as she walked up the drive going to work, she saw the ring lying in the stones. Inscribed on the ring's inner side, was Spence's identification. With a little detective work, she was able to locate and return the ring to



Lloyd Gorsiski, WB9RGO after winning the grand prize at the Chapter picnic



Spencer Clope, W9LDH, and Chuck Knotek, W9GEM, relaxing after their trip thru the picnic buffet line.

Chapter Reports



Al Martini, W9CKQ, receiving a certificate of appreciation from Larry McCalvy, WA9JMO, Chapter President, for outstanding support of the Wisconsin Annual Ham Banquet over the years.

its owner. Three cheers for the folks who go the extra mile!

Our Chapter would like to thank Phil KC9IS and Loraine KB9VLN Neumiller for hosting our September meeting in their very lovely home. Phil had surprise "door prizes" for each attendee, coffee and a few goodies to nibble on during the meeting. At the conclusion of the business portion of the night's activities, Phil gave an enlightening "show and tell" demonstration of PSK-31. Very informative!

Larry McCalvy WA9JMO - President

Chapter 166, Colonial

The annual picnic was held in June with 42 attendees and a surprise ending.



Al Bubeck K3GNM (l) receives Meritorious Award from Chapter President Tom Jones W3BED.

President Tom Jones W3BED presented Al Bubeck K3GNM with the QCWA Meritorious Award for his many services to the Chapter

We also continue to hold our Breakfast meetings 9AM at the Villanova Diner in Villanova Pa. on Rte 30 the second Tuesday of every month. Come out and enjoy the interesting discussions and Paul Bohlander W3VVS generally has some antique radio item to stump the members..

Plans are in the making for luncheon meeting September 27th at Ludwigs Inn. At this time we will have a guest speaker who has a most interesting program sure to be enjoyed by all.

At the next Board of Directors meeting our Christmas Party will be discussed and plans made.

We ask all our members to remember QCWA and Colonial Chapter 166 when talking to their contacts etc who become eligible for membership to join us.

Charlie Stouth W3ZPP

Chapter 169, Sacramento Valley

The Sacramento Valley Chapter meets the second Wednesday of each month at LYONS RESTAURANT, located at 1000 Howe Avenue in Sacramento, California. Members and guests start gathering after 7 AM with a no host breakfast at 8 AM. Meeting takes place after breakfast. Currently Lyons offers a very good senior breakfast menu.

Earlier in the year we were saddened with the loss of two long time and faithful members, Chuck Eder, W6LOE, and Frank Jacobs, W2BSL. Chuck had been Chapter Vice President for 10 years and a very active ham in the Sacramento area. Frank, 92 years young, was first licensed in 1921 and was a founding member of the QCWA Chapter in New York. They will both be missed.

Out guest speaker at our July meeting was Bob Bold, W6RDC, who gave a very informed talk about the sun and sunspots. Bob had pictures of solar eruptions, talked of propagation and explained WWV indexes, which included SFI, A & K. He also had a video called "Solar Blast" which depicted flares from the sun.

Bob was also our speaker at the August meeting, giving a presentation on PSK31, a new digital mode that is gaining in popularity. Bob had a video demonstration showing his lap top computer and screen with incoming signals.

Our August meeting speaker was Deane Coats, NR6A talking of corrosion engineering in today's high tech environment.

If in the Sacramento area on the second Wednesday of the month you (includes YLs) are invited to attend our meeting. Contact Paul Wolf, W6RLP at (916) 489-8112 for further information.

Gary Stilwell KI6T - Secretary

Committee

A body that keeps minutes and wastes hours.

Chapter 170, Central Washington



Harold Dean W7HW (r) receives his 70-year plaque from Floyd Riemenschneider K7MGA (l).



The Happy 70th cake for Harold Dean W7HW.

Chapter 181, Hudson Valley

A meeting was held on July 15 at the PENNYBRIDGE TAVERN, at the Hilton Inn, in Tarrytown, NY. It was attended by 25 members and guests.

Member Bill Hellman, NA2M, and Jim Mortensen, N2HOS, presented their slightly different views of the Dayton 2000 ham fest. Bill finds Dayton a great place to visit with DX friends from around the world. He spends much time in the NJDXA hospitality suite, which the DX fraternity treats as home base. Jim meets old friends in the digital field and in fact attended this time to meet some foreign friends who were coming. He had been away for several years. He felt the equipment show was not up to par as to quality or quantity. The flea market is leaning more to computer hardware and it is



Left to right: Bill Hellman NA2M and Jim Mortensen N2HOS hold Certificates of Appreciation just presented by President Harry Moore W2JQS.

hard to find much of value for ham radio. He notes that similar trends are reported from other countries.

A picnic was held on September 9 at Graymoor, the residence of member Brother George, WA2RRK.

After the usual prize drawing, the meeting was adjourned.

Dick O'Brien NJ2J - Secretary

Chapter 188, Lost River

On September 23, 2000, QCWA Ch 188 had their annual picnic at the home of Tom and Carolyn Brooks, NV7N & AB7ET. The weather cooperated beautifully and we had lots of wonderful food to eat. Next month we will resume our regular monthly luncheon meetings at Mike & Kathy's Restaurant in Klamath Falls, Oregon.

It is with sadness that we report that Roland Weir W6UCF became a Silent Key on September 14, 2000. His wife, Phyllis K7WVT and children survive him along with several grandchildren. We will all miss Roland. Carolyn Brooks AB7ET

**THE JOURNAL IS AVAILABLE FREE TO
BLIND PAID-UP MEMBERS ON AUDIO
CASSETTE TAPE. FOR MORE
INFORMATION, CONTACT
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PH: (813) 870-0867.**

Chapter Reports

Chapter 194, Hawaii State

Hawaii State Chapter 194 held its spring meetings in Honolulu. This may not seem such a big deal since members live in Hawaii. But get this; one member had not been off his home island for 12 years. Going to Honolulu was to him like visiting outer space.



Chapter 194 members are standing in front of the "Mighty Mo" Battleship Missouri 18" guns. Left to right: Ned Conklin KH7JJ, Eddie Miller W7GMH, Dean Manley KH6B, Paul Leib KH6HME, Denise Smith, Clarence Smith AH7A and the unnamed official guide.

Meeting items were: a) QCWA QRP club activities, b) QCWA Call Sign, c) DXCC card checking, d) The formation of Hawaii DX Association AND Chartering of a new QCWA chapter for Oahu. After the meeting, members scattered to the four winds, with outer islanders acting like tourists for visits to the Submarine museum, Arizona memorial and a personal guided tour of the Mighty Mo (Battleship Missouri) conducted by Ned Conklin KH7JJ -very touching. Many thanks to John Peters K1ER, Lee Wical KH6BZF and others for great support in organizing this meeting.

Paul Lieb - Secretary/Treasurer

Chapter 196, Edison

The Edison Chapter 196, Fort Myers, Florida has had an interesting year. Many things have added quality to our small but close-knit chapter. The visiting of many members from other chapters around the country and from several provinces in Canada, highlights the year 2000 in review. We had several presentations, all done informally, which added to the uniqueness of our luncheons. We were pleased to meet and listen to a candidate for national office who did indeed become a director of QCWA. A slide show of the Panama Canal was a big hit in the spring. The national vice president broke bread with us many times. We also had a local charter member put on an antenna radiation demonstration right in front of a very interested and appreciative group this summer.

Many local members participated in field day at a park

nearby with the Fort Myers Amateur Radio Club. Several of them also helped to make the local hamfest a success last January. A few members participated in a special event station operation at the Thomas Edison home which was the site of a week long marathon prior to a huge inter city parade honoring the inventor and name-sake of our chapter.

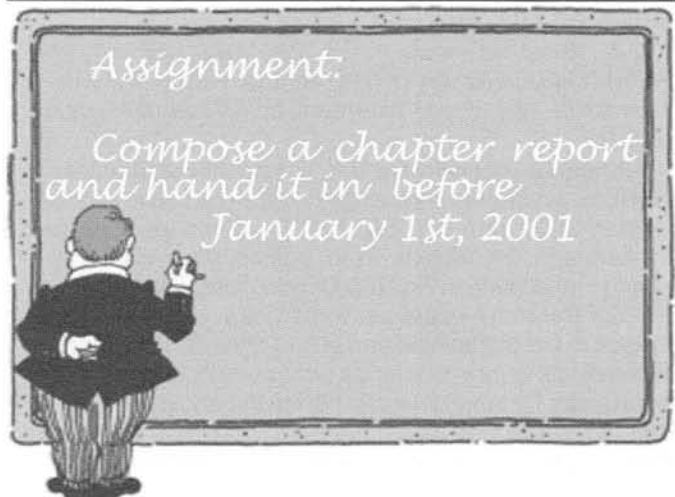
Three members were invited to operate at the special event station at the Miss America Pageant in Atlantic City, New Jersey in October. They were amongst friends from Chapter 77 and the host club SCARA, the Southern Counties Amateur Radio Association. From the very beginning, our chapter's policy has always been that guests are invited to come along and enjoy our gatherings. This encourages future memberships and allows new amateurs to socialize with those that are a bit more seasoned. This policy will continue in the future.

We have a radio magazine recycling program that is becoming popular. Bring in your old issues and take home someone else's.

I would like to emphasize that any amateur who is eligible for QCWA membership and enjoys the comradeship of this organization should be a paid up member. There have been some instances when people have not maintained membership but continued to participate in our activities. I hope that these were merely oversights and that this will not become a problem. Remember, our strength and power comes from our membership. The Journal is a very positive aspect of membership in the QCWA. The articles and general information are unique to those of us who have been licensed for over 25 years. All members are welcome to share experiences and submit them for international publication. I encourage all members to do so. The fall and winter brings forward many seasonal visitors and our attendance doubles or triples. There are some members who do not live in the vicinity but they continue to keep in touch on the air. I want to give them a special acknowledgement and thank them for supporting Chapter 196 and the QCWA.

I hope that 2001 will see us growing and promoting strong friendships. It is my personal goal to sponsor a young amateur who is seeking a scholarship to assist them in college. Remember the scholarship fund.

Tad Burik WA8PXL - President



24 Axioms for Airline Pilots with suppliment for Ham/Pilots



You may have read in the Chapter 41, Dallas report on page 21 that retired airline pilots Hall Bond, K5ZSB, and Jordan Jones, W5CF, have co-authored a brisk-selling book written in non-technical language expressly for seniors. The title of the book is, "Airline Piloting for senior Seniors - or How to Obtain an Air Transport Rating in 28 Days and Fly for the Airlines" (Franchet Publishing Co., New York, 2000).

One of the first to try out the new program was Chapter 41 member Bob Olney, N5NT, who soloed in a McDonnell-Douglas MD-80 and who may well be in the left-seat on your next flight subing for a vacationing, sicked-out, PTA attending Captain.

The Journal Editor, being a white-knuckle frequent flyer, wonders if Messers Bond and Jones have given due consideration to the 24 most important axioms for pilots? The editor has not reviewed the newly published book but nevertheless he feels sure that the axioms have not found their rightful place in the Bond-Jones book. If the authors wish, they may include them in their next edition.

1. Every takeoff is optional. Every landing is mandatory.
2. If you push the stick forward, the houses get bigger. If you pull the stick back, they get smaller. That is, unless you keep pulling the stick all the way back, then they get bigger again.
3. Flying isn't dangerous. Crashing is what's dangerous.
4. It's always better to be down here wishing you were up there than up there wishing you were down here.
5. The ONLY time you have too much fuel is when you're on fire.
6. The propeller is just a big fan in front of the plane used to keep the pilot cool. When it stops, you can actually watch the pilot start sweating.
7. When in doubt, hold on to your altitude. No one has ever collided with the sky.
8. A 'good' landing is one from which you can walk away. A 'great' landing is one after which they can use the plane again.
9. Learn from the mistakes of others. You won't live long enough to make all of them yourself.
10. You know you've landed with the wheels up if it takes full power to taxi to the ramp.
11. The probability of survival is inversely proportional to the angle of arrival. Large angle of arrival, small probability of survival and vice versa.
12. Never let an aircraft take you somewhere your brain didn't get to five minutes earlier.
13. Stay out of clouds. The silver lining everyone keeps talking about might be another airplane going in the opposite direction. Reliable sources also report that mountains have been known to hide out in clouds.

14. Always try to keep the number of landings you make equal to the number of take offs you've made.

15. There are three simple rules for making a smooth landing. Unfortunately no one knows what they are.

16. You start with a bag full of luck and an empty bag of experience. The trick is to fill the bag of experience before you empty the bag of luck.

17. Helicopters can't fly; they're just so ugly the earth repels them.

18. If all you can see out of the window is ground that's going round and round and all you can hear is commotion coming from the passenger compartment, things are not at all as they should be.

19. In the ongoing battle between objects made of aluminum going hundreds of miles per hour and the ground going zero miles per hour, the ground has yet to lose.

20. Good judgment comes from experience. Unfortunately, the experience usually comes from bad judgment.

21. It's always a good idea to keep the pointy end going forward as much as possible.

22. Keep looking around. There's always something you've missed.

23. Remember, gravity is not just a good idea. It's the law. And it's not subject to repeal.

24. The three most useless things to a pilot are the altitude above you, runway behind you, and a tenth of a second ago.

Since we now know that Mr. Olney is going to function as a pilot and is also a ham, the Editor feels compelled to add a few more axioms that apply to ham/pilots.

A1. The pilot must refrain from turning his rig or HT ON during takeoffs and landings, just as us lowly passengers must turn off our laptops and scanners.

A2. Operating a Morse-code key while piloting an airplane is strictly prohibited and is a capital offense.

A3. Never, NEVER will checking into a QCWA net take priority over operation of the airplane.

A4. Installation of external antennas is not permitted.

A5. QSL cards will not be plastered all over the cockpit.

A6. Identifying the flight to the air-traffic controller by ham radio callsign is cause for immediate dismissal.

A7. Ham/pilots must refrain from complaining about sending speed of airport beacons.

A8. Calling CQ on the passenger intercom is so grievous a violation that a punishment has yet to be devised.

A9. Altering the course or attitude of the airplane to improve reception for that "rare" DX contact, if discovered, warrants immediate dismissal and ham/pilot must exit the airplane within 2 minutes with no exceptions.

2000 QCWA Scholarship Awards

QCWA General Scholarships - \$1000 each

Samuel R. Larson, Stevens Point, WI
David Linnerth, Waterloo, ON
Christopher M. Losito, Granite City, IL
L. Greg Magone, Whitefish, MT
Jason M. Marshall, Monticello, ME
Ruth M. Martin, Las Cruces, NM
Ross W. Oakley, Reno, NV
Rebecca S. Polewczak, Gansevoort, NY
Laura E. Sine, Valley Head, AL
Angela Skolaut, Great Bend, KS
Erin M. Swaney, Mifflinburg, PA
Robyn M. Wilson, Gainesville, FL

Ralph Hasslinger (W2CVF) Charter Member Scholarship - \$1000

Jessica R. Asbill, Dairy, OR
Walter E. Bailey, Johnson City, TN

Max Jacobson-John Kelleher Family Scholarship - \$1000

Leslie K. Karp, Torrance, CA

Donald & Phyllis Doughty Family Scholarship - \$1000

Deborah E. Bennett, Jeffrey, NH
Joshua K. Brown, Virginia Beach, VA

QCWA Robert Cresap (W9LRI) Memorial Scholarship - \$1000

James A. Catalano, Woodbridge, VA

QCWA Edwin B. Woodruff (W3SX) Memorial Scholarship - \$1000

Benjamin W. Kidd, Montclair, VA



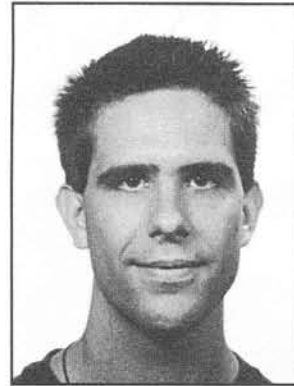
QCWA General Scholarships

Sam Larson N9JQO

My name is Sam Larson, N9JQO. I major in Psychology, Spanish and Computer Information Systems (CIS) at the University of Wisconsin-Stevens Point (UWSP).

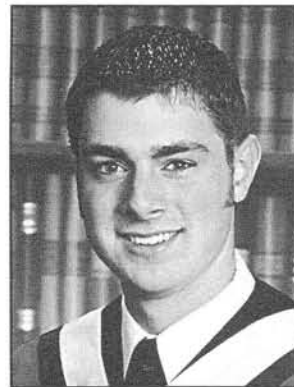
My favorite activity involving Amateur Radio is working at the Special Olympics Summer Games held at UWSP every year. I was unable to attend this last June, because I spent spring of 2000 studying abroad in Spain. It was the first time since I was nine (the year I got my license) that I missed it. Last year I was the Communications Director, who is in charge of tournament central, including all the Hams.

Some of my other activities and interests include Spanish Club (Co-President), the Association of Information Technology Professionals (Student Chapter), the WI/Nicaragua Partners, Concert Choir, and many school clubs. I enjoy reading, biking, running, and enjoying time with my friends.



David Linnerth VA3DML

After completing my final year of high school, I am looking forward to beginning my first year of post secondary education at Wilfrid Laurier University, in my hometown of Waterloo, Ontario, Canada. I am going to be completing a double major in History and Geography, and then moving on to teachers college. A career in teaching will give me the opportunity to introduce the hobby to the young people that I teach. I am currently 19 years of age and work during the summer as a camp counselor at a local day camp. During the school year, I work in Desktop Services at a local high tech software company. I have been a licensed operator since 1994, and I enjoy the opportunities that amateur radio has given me to grow and meet new people. I would like to take this opportunity to thank all the members of the QCWA for their financial support in my continuing education.



Chris Losito KB9SDX

I am using my scholarship to attend Ranken Technical College in St. Louis this fall studying Electronics Engineering Technology, with wireless communications as a sub-field.

I have always been interested in electronics and even as a child, always had a pair of 49 mHz walkie-talkies handy. When I became old enough to realize they didn't work out of shouting distance, I was turned on to ham radio through many friends in our local Egyptian Radio Club. My family (except my youngest sister) and I attended classes taught by volunteer hams and we all received our tickets. I was mic-shy at first but other hams made me feel at home on the air.

My current radio activities include 2-meter and 70-centimeter FM, 10-meter SSB, and PSK31. I have participated in contests, and am always present at Field Day. I volunteer my radio skills locally when needed be it for Skywarn activity, disaster relief or just fun events such as races and parades.

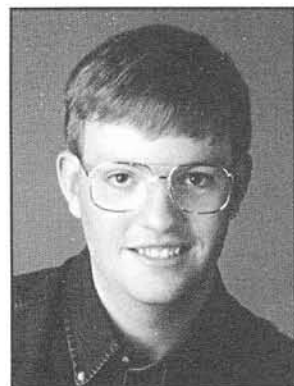
Thank you for your confidence in my continuing education and your support of the hobby!



Greg Magone KB7QPS

I am a licensed General Class amateur radio operator. I started in my ham radio adventures in the spring of 1990. At the local grocery store, I stumbled across an issue of the 73 magazine in the magazine rack. After many hours of pondering over the magazine and several trips to the local library, I knew I wanted to become a ham. The fall of 1992 I received my Technician Class license for passing the written examination.

Ham radio is only one of my many hobbies. I enjoy hiking and fishing in the summertime, snow shoeing in the wintertime. Bike riding is one of my year round activities now that I am attending the University. Finally, I am active in the American Society of Mechanical Engineers at Montana State University. The organization helps me create business contacts and networking that is needed to obtain a quality engineering job.



QCWA General Scholarships



Jason Marshall KB1CZE

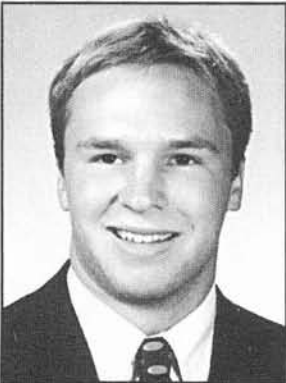
I was born and raised in Maine. During elementary school I was especially interested in geography and science. For my sophomore year of high school, I transferred to Greater Houlton Christian Academy. There, Peter Hurd, N1SS, volunteered to teach a course for those interested in becoming amateur radio operators. After taking this course, I passed the exams to become a Technician Plus licensee on my first try in 1998.

I graduated from Greater Houlton Christian Academy as Class of 2000's valedictorian. During this fall I will attend LeTourneau University in Longview, Texas, to study Aeronautical Science. There is an amateur radio club on campus and I plan to join it.



Ruth M. Martin KD5IFU

I am a Communication Studies graduate student, and enjoy my job as a teaching assistant. When I'm not helping students, I enjoy playing with my cat, Miss Winks, reading science fiction and fantasy, and, of course, talking on the radio. I got interested in Amateur radio two field days ago, when my boyfriend asked me if I wanted to come with him. They literally had to pull the battery on my radio to get me to stop trying to get that final contact—I had been trying to get through a pile-up for ten minutes! Since then, I have been struggling to learn code, and hope to upgrade before field day comes around again.



Ross Oakley W7ROS

I wish to express my appreciation for the \$1000 scholarship that your organization awarded to me. This will certainly help me in my schooling expenses and to attain my goals.

I was born in Reno, Nevada on July 24, 1980. My father, grandfather, uncles, brother and mother are all Amateur Radio Operators. My grandfather was licensed in 1925, as 6JA. My father received his license in 1956, as KN6RBL. I received my license in 1991 when I was 11 years old. My first call sign was NL7WL.

Since graduating from High School, I have attended Oregon State University in Corvallis, Oregon. I am currently double majoring in zoology and environmental science. I have made the school honor role for the last two quarters. I am hoping to attend a semester in New Zealand where my ham radio skills will be useful to communicate with my family and friends. At OSU I am the former scholarship and diversity chairman of my fraternity, Phi Delta Theta. I have been involved in many volunteer activities as part of this fraternity.

I would like to thank you again for the scholarship award.



Rebecca Polewczak N2LPW

Rebecca Polewczak, 19, is currently attending her sophomore year at Clarkson University, where she is a chemistry major in the Honors Program. With a cumulative GPA of 3.9, she is on the President's list, and her activities at school include secretary of Phi Mu Fraternity, and member of K2CC, Clarkson's amateur radio club. She is also a member of WA2UMX, the Saratoga County RACES association. She holds a Tech Plus amateur radio license, and has been licensed for the past 10 years.

Laura E. Sine WL7CBN

First I want to thank QCWA for their assistance for my college expenses.

I was born in Fairbanks, Alaska; which is how I got my WL 7CBN callsign. From there I've moved, lived in or visited 37 states and 3 Canadian Provinces. I will be earning a degree in Animal and Dairy Science at Auburn University. Many of the courses are about equines, which is the subject I know and love best. I do take time out for Amateur Radio. In 1994 I won first place (Novice section) for the 10-meter contest in Georgia. I also continue to operate as time permits.



Angela Skolaut NØUAI

Thank you once again for awarding me this scholarship. This will help me a great deal through my final semester at Emporia State University.

I am a senior at Emporia State University. My major is Elementary Education and my minor is Early Childhood. I first received my amateur radio license in August of 1992. I then upgraded to a tech. plus in June of 1998. I belong to the Golden Belt Amateur Radio Club and am a member of the ARRL. I have helped direct the Labor Day Parade in Hoisington and Great Bend, Kansas. Amateur Radio keeps me in contact with my family on vacations and on the way home from school. Amateur Radio has been and is a "special" means of communication for my entire family, and myself since my older sister and my mother and father are all hams. I look forward to introducing ham radio to my future students.

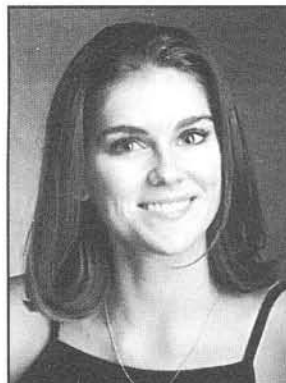


Erin M. Swaney N3MGY

I wish to thank the Foundation for Amateur Radio and the QCWA for awarding me the \$1000.00 scholarship. I will certainly put the scholarship money to good use this year at the University of Pittsburgh. Throughout the year, I will remember the hard work of the members of both the FAR and the QCWA in making this scholarship possible. I can only repay your thoughtfulness with my continued academic work and my involvement in amateur radio.

In the fall I will be a junior at the University of Pittsburgh majoring in Chemistry. After graduation I hope to do research at the Center for Disease Control in Atlanta, Georgia. I have a Technician class license and I am involved in Union County RACES, my local amateur radio club, SVARC, and I am Membership Chairperson of the Panther Amateur Radio Club at the University of Pittsburgh. My father, David Swaney, N3KCR, and my two brothers are licensed hams as well.

Thank you again for you awarding me this scholarship.



Max Jacobson-John Kelleher Family Scholarship

Leslie K. Karp KC6WZQ

I have been an Amateur Radio operator since the age of 10, for 8 years! I never realized, however, that Amateur Radio would help me through college! I am very excited to be attending Harvey Mudd College this fall where I plan to major in mathematics. The QCWA scholarship will help me a lot! I am truly grateful to be an Amateur Radio operator, not just because of the scholarship I received, but also because of all the great people I have met over the airwaves! I try to make as many contacts as I can in my free time and am always excited to meet another person! All these scholarships given out just go to show how wonderful and generous Amateur Radio operators really are!





Robert Cresap (W9LRI) Memorial Scholarship

James Catalano KC4SZT

James is currently attending Northern Virginia Community College, and will transfer to George Mason University to complete a BS degree in Business Marketing. He was first licensed in 1990 as a Novice at the age of ten, later upgraded to Tech Plus, and plans to upgrade to General this Fall. He continues his membership with the Woodbridge Wireless Club and participates in various activities. He was a previous winner of a QCWA and FAR Silent Key scholarship.



Edwin B. Woodruff (W3SX) Memorial Scholarship

Benjamin W. Kidd KG4EIF

I would like to express my deepest gratitude in receiving the QCWA Edwin B. Woodruff Memorial Scholarship.

Eagle Scout Benjamin Wilbur Kidd, Son of Charles B. and Rochelle D. Kidd, was born on March 18, 1982. Ever since he can remember, Benjamin has had a passion for creating and building things. His interests began to focus towards the field of electronics. In addition to an interest in electronics, he plays violin, string bass, and electric bass. Before graduating, Benjamin played in the high school jazz band, Symphonic band, two orchestras, and played electric bass in the final choir show. He is also currently Co-captain on the Prince William Swim Club, and swimming on the Dale City Frogs. Benjamin, KG4EIF, joined the Amateur community after a friend inspired him to get his license. He recently graduated Summa Cum Laude from C.D. Hylton High School, and plans on attending the University of Virginia, pursuing a bachelor's degree in Electrical Engineering.

Donald & Phyllis Doughty Family Scholarship

Deborah E. Bennett K1DEB

As a recipient of the QCWA Donald and Phyllis Doughty Family Scholarship, I am happy to present to you my biographical sketch.

I was born in Connecticut and have lived in Jaffrey, New Hampshire for the past twelve years. I graduated from Conant High School, class of 1998 as valedictorian. During high school I enjoyed playing the flute, drama, and peer tutoring. It always gave me a great deal of pleasure to help those who needed extra help.

I am currently attending the University of New Hampshire, majoring in French Education. I was inducted into Phi Beta Kappa and Pi Delta Phi this past May. I am looking forward to spending next year at the University of Burgundy, in Dijon, France.

I obtained my call sign of KBIEGX in July 1999, and later obtained vanity call K1DEB. In the time that I have been licensed, ham radio has helped me invaluablely. My uncle is amateur radio licensee W1FEW, and is a member of QCWA. My father and mother, WB1NH and WB1RLB are also licensed, in addition to two of my brothers, K1JSB and K1GWB. My youngest brother is anticipating getting his license soon.

I thank all members of QCWA for supporting my education; it is always a pleasure to have hard work recognized!

Not available

Ralph Hasslinger (W2CVF) Charter Member Scholarship

Jessica Asbill KC7YET

In my family there are 3 HAM Radio Operators. My father, KC7HFA is an Extra; my mother, KC7LZW is a Technician; and my brother is KC7NQB, also a Technician. I am a Technician also but and studying my morse code to become a General.

Some activities I am involved in are CERT (Citizen Emergency Relief Team) over the New Year, Crater Lake Rim Run at emergency stopping places for runners, and helping with the Blood Drive at the Red Cross.

I will be graduating May 2001 with my B.S. in Environmental Science. This year I will be finishing school at Northwest College in Kirkland, W A. After graduation I hope to work in third world countries, advising them which crops to grow to yield the largest possible harvest while utilizing small ground space.



Ed Bailey KF4VAT

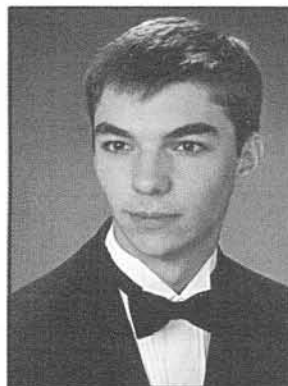
Ed Bailey, KF4VAT, is a lifelong resident of Johnson City, TN and an Amateur Radio licensee since 1997. He is a 2000 graduate of Science Hill High School where he was active in Health Occupation Students of America. Ed plans to attend the University of Tennessee, Knoxville.

Ed is a third generation ham whose grandfather (K4IZP), father (K4RWP), mother (N5BUZ), aunt (N4TCX), and brother (KF4VAU) are all licensed amateurs.

The highlight of Ed's amateur career was recently working Argentina on 6 meters.

In addition to amateur radio, Ed's other interests include learning music on the guitar and piano, reading, and playing sports.

He wishes to thank the FAR and QCWA for their award of the Ralph Hasslinger (W2CVF) scholarship.

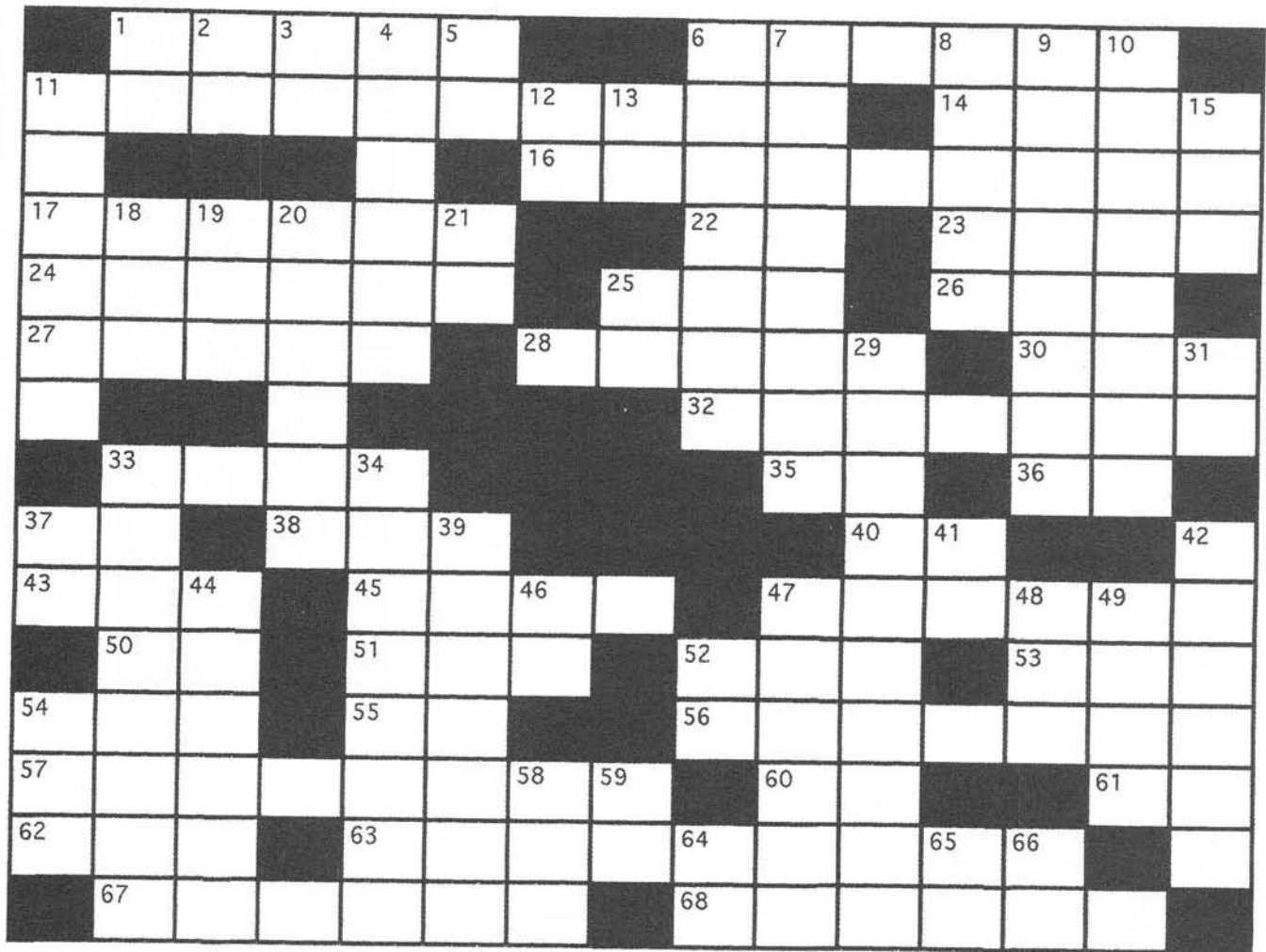


NOTE

Scholarship winners Joshua K. Brown, awarded the Donald & Phyllis Doughty Family Scholarship, and Robyn M. Wilson, awarded a QCWA General Scholarship, did not submit biographical sketches or photographs.



Al LaPlaca (W2WW) Strikes Again
CROSSWORD PUZZLE from AL
(General Class Level)



DISCLAIMER

The QCWA Journal assumes no responsibility for the accuracy of the crossword puzzle.

**Cheat sheet
and/or
answers on page 55**

ACROSS

1. With 33-Across, revered ham radio implement.
6. One does this to a vertical array.
11. DXCC country with most prefixes.
14. A4
16. 3B8
17. Early radio crystal.
22. Sweden.
23. Table scraps.
24. Thing.
25. August sign.
26. Untruth.
27. Moscow money.
28. _____ per-inch.
30. _____ band beam.
32. Turns one's stomach.
33. See 1-Across.
35. One-time Portuguese colonies prefix.
36. Dir. from ID to FL.
37. Cuba.
38. Leg.
40. Spain
43. A year in Jose's life.
45. First U.S. YL astronaut.
47. Russian city and river.
50. CW evening pleasantries.
51. Half of an African fly.
52. U.S. mil. branch.
53. Component of solder.
54. Alias.
55. Montana.
56. Carbon based.
57. What O.T. ops have stacks of.
60. Arkansas, or end of transmission.
61. That is.
62. Compass point.
63. Town east of Adelaide, Australia.
67. The SV people.
68. Quaint ham moniker.

DOWN

1. First U.S. Novice prefix.
2. He's been around a while.
3. Russia
4. F
5. One-time Corsica prefix.
6. What more hams are becoming.
7. TVI cause, or your child.
8. Plant in lily family.
9. United Arab _____.
10. Potent potable for 4-Down.
11. Expensive sweater material.
12. Another prefix for 4-Down.
13. WØ state (abbr.).
15. Navy Radio Washington.
18. _____ Ail Island (deleted country).
19. One-time White House monogram.
20. Form of fishing.
21. @
25. Argentina.
29. Power tetrode element.
31. Sardinia.
33. VR2
34. Place in GM land.
37. W6
39. Made a visual error.
41. Before rectification and filtering.
42. "Never mind".
44. An ancient and medieval heavy catapult.
46. First state (abbr.).
47. 4X4
48. Arc tangent in BASIC programming.
49. Eight.
52. One-time Moldova prefix.
54. Pub favorite.
58. One-time kHz.
59. End of contact, or deceased.
64. Not hi.
65. CW morning pleasantries, or Scotland.
66. Hungary..

A Spark Coil, the FCC and "It Only Experimenting"

-by E. Marcus Barnes W5CN, ex W5TGV, VP5ME

This nostalgic yarn—set in the West Texas town of San Angelo—is a slice from my plucky teenage years, about the path a young boy might stray upon en route to getting his ham ticket.

As a thirteen-year-old introverted electrical experimenter, my hoard of “high-tech” playthings ran the gamut; voltaic cells to doorbells, crystal sets to Atwater Kents. I fancied my prized clutter equaled that of the young Edison in his day. I’d built one, two, and three-tube radios with ’99s, ’01As and ’30s, ala Hugo Gernsback. But amidst this consuming electrical paradise was what came to be the most mystical and demonic toy I possessed—a Model-T-Ford Spark Coil.

With Morse Code ability and the obsessive dream of being a radio ham one day, I was off to a buzzing start (like Marconi?).

Illustrated in a radio book was an induction coil “Experimental Wireless Set.” The 1909 edition of Operator’s Wireless Telegraph and Telephone Hand-book, still on my bookshelf, showed how to do it. With no tuned circuits, you hooked an antenna to one side of the spark gap, the other side to ground, just like in the picture, simple as that. My own version ended up with a Model-T coil and six-volt lantern battery both inside a Travis Club cigar box. Fahnestock clips soldered on the Ford Coil’s lead contact blobs made connections easy, and the taped-shut cigar box was stood on its edge. A pair of short, flat-ended, number-ten wires in binding posts comprised the spark gap on the topside. A J-38 telegraph key was mounted nearby. Setting the gap to a bit less than a quarter-inch gave the most ravishing spark ever; thick, blue, and hot...a bewitching fire, fit to blitz the ether! I soon learned that a series condenser with the antenna made it work even better, since it didn’t suck down the spark, as did a direct connection. But I’ll never forget that weird, funny smell. My daddy called it “Ozone.” Having a ninety-foot antenna running high to the back of our big lot made getting on the air quick and easy. An SPDT porcelain-based knife switch, from Woolworth’s, worked nicely as the antenna changeover. An out-of-the-cabinet Atwater Kent 55 TRF chassis was the receiver, and wherever you tuned it, the buzzing roar of my “Experimental Wireless Set” was equally loud. My mother said it came in over the telephone line. Moreover, my grandmother complained of an annoying sound in her Beltone hearing aid.

My “Experimental Wireless Set” dazzled Charles, a neighborhood pal and kindred electrical tinkerer. He soon got his own Model-T Coil from Sears Roebuck (yes, they still had them), and hastily rigged a similar setup in his garage workshop, a few blocks away. His station sported a Hallicrafters S-38. So as new horizons awaited us, and Charles “committed” to improving his code speed (he didn’t), we would somehow—in the dim future—get our ham licenses (he never got his).

And while we had a few code-practice spark-coil QSOs, always initiated by a ‘phone call, there dawned a new awareness: At our disposal was an uncanny power, one tantalizingly ripe for assorted mischief, a forte whose prospects far surpassed any juvenile aspirations to the radiotelegraphic art itself. That we were wreaking utter havoc on the AM broadcast band (plus 200 meters and down?) opened the door to more alluring pastimes.

A car—with radio playing—would pass our house on Washington Drive. As it rolled to a halt at the Abe Street stop sign, I’d hit the key, and faithful “Experimental Wireless Set” sounded its crisp, staccato bzzzz, bzzzz, bzzzz.” With the street only fifty feet away from my upstairs bedroom window, the spark’s harsh note was heard—much to my tittering—blasting from within the car, drowning out local station KGKL. There being no car A/Cs in those days, motorists drove with windows down.

But there was more to come: For anyone whose electrical enlightenment was limited to the mundane shock of a static charge, or maybe 120 volts AC, bodily contact with spark-coil electrodes was, by comparison, a truly unequalled and unforgettable event in their lives.

Take my word for it!

Being imbued with my high-voltage wisdom, there naturally followed a compelling incentive to induce others to share this uplifting experience. In fantasy, virtually nothing—doorknobs, beds, schoolteacher’s chairs, sewing machines, door screens, toilet seats, sofa cushions, mailboxes—escaped consideration of being wired up. In reality, though, only a few of these perverse fantasies were acted out, offering a jolting shock (step lively, there!) to an unsuspecting, electrically naive victim. And believe me, it didn’t come free of charge. But although parental confiscation of this infamous, little wooden box and battery was an ever-looming possibility, it never amounted to more than a threat and a scolding. (But I’m only experimenting...like Edison.)

Then there was my first “mobile rig,” a novel adaptation of the now tried-and-true “Experimental Wireless Set.” Installing the cigar-box rig in the front basket of my Western Flyer bicycle, complete with a wire-wrapped cane fishing-pole antenna lashed to the front fork, I boldly took to the streets of San Angelo.

Wiring the spark coil’s ground side to the bike frame proved tricky at first. Touching the frame or letting it go, under key-down conditions, guaranteed a shock. So either keeping one hand in contact with the metal handlebar, or staying insulated from the bike altogether, was a fast-learned reflex. In retrospect, dragging a grounding chain would have probably made a difference. To a casual observer, the tall vertical pole on the bike made it look like a boy going fishing. But BCLs...beware.

Keying the spark coil during a Sunday evening bike ride through the quiet Santa Rita neighborhood was the most bizarre amusement ever. San Angelo didn't get a TV station until about 1954, so in those days families gathered about their living-room console sets tuned in to Stop The Music, or Inner Sanctum. Some houses had outside radio aerials strung high over backyards and garages.

In nice weather it was usual to have windows open and blinds undrawn to catch the evening breeze. Many a vexed BCL lunged for the knobs on his parlor radio as the raucous buzz of my mobile "Experimental Wireless Set" bellowed forth. Although such living-room commotion was clearly seen and heard from out in the street, I recall nobody ever looking out the window!

One evening I peddled up Abe Street to Avenue J, the QTH of W5QX (the late Carl Brinegar), old-time ham and my radio mentor, active on 40-CW and 10-meter phone exclusively. With the backyard hamshack door wide open, he and his son were listening to CW over his 1936-vintage SX-11 Super Sky rider. I could hear it in the alley. Although my original intention was to show them what I'd proudly rigged on my bicycle, I couldn't resist banging out his call, W-5-Q-X, on the old J-38. What a racket, full break-in! If I confounded a QSO, I don't remember, but a rankled CW operator was out to the alley in no time flat, flashlight in hand, junior op at his heels.

Still abiding to this very day was Carl's ominous tone as he admonished me that night: "...and you'd better keep that thing off the air...do you want Mr. Apple to catch you? He just might do that! It's a federal offense." (Next stop, Leavenworth?)

Known to all hams, Mr. Marion E. Apple was the FCC Radio Inspector in Dallas. He sent out those dreaded pink tickets. His own ham call was W5CG. That Dallas was 250 miles away mattered not, for there lurked in my callow mind a real fear of the FCC

coming to town one day...and if they did, then what? And so it was that W5QX's fatherly counsel inspired me with a fresh and challenging fantasy: Could I outwit the FCC?

Perceived as both a feared authority figure and hero-policeman of the airwaves, Marion Apple, a couple of years later in September 1951, actually made a radio sleuthing trip to San Angelo, located a 20-meter bootleg ham station and, assisted by a federal Marshall, dismantled it. The story made the local newspaper and included a photograph of Mr. Apple triumphantly hovering over the felonious ham rig. Oddly enough, this incident was just two months after I got my novice ticket, WN5TGV. And as it turned out, I soon befriended the bootlegger ham (but that's a whole episode for a future article).

Nine months later, in May 1952, on the sixth floor of the U.S. Terminal Annex Building in Dallas, it was none other than Mr. Apple himself who proctored my General Class code test and radio exam. And although we chatted about his celebrated San Angelo excursion, I dared not mention those memorable spark-coil shenanigans of my adolescent, pre-license era. (But what if I had?) Epilogue: While I've divulged a treasured piece of my boyhood and coming of age, I must say that as a licensed ham operator, wanton QRM—to my sensibilities—is an abominable high crime of the airwaves. So I trust this account is received in the right spirit. And admittedly, on today's telecommunications scene, we're frayed with young virus-wielding computer hackers whose malicious actions are clearly criminal. The irreparable damage they've inflicted is incalculable. And we read in QST of ham QRMers getting nabbed here and there. But can such banditry be justly compared to youthful radio pranks of a half-century ago? How clear—or how blurred—is the boundary separating these two worlds??

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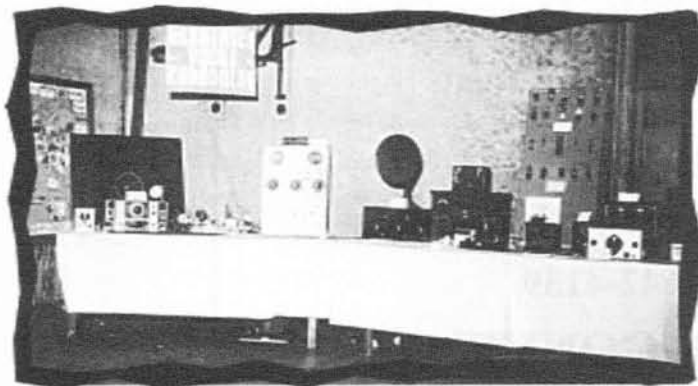
THE TRI-STATES RADIO CLUB

- by John McKinney WØAP

I know of other radio clubs by this same name but my club was different from others in that it had in its small membership of perhaps a dozen licensed amateurs members from three call areas: W2, W3, and W8; all living within walking distance of each other. I consider myself as a charter member of the Tri States Radio Club as the whole thing started in late '33 or early '34 about the time I received my first license (W2GTW). I was 15, as was Ben Swartwout (W2FRU) and Fred Berger (W8MFU). We three attended Port Jervis High School in the state of New York and were deservingly dubbed the appellation "The Three Musketeers". If we had an "Elmer" it was likely W3AC, Goyn Reinhart (now W2AF) who lived on a farm just a few miles south of the Jersey line and worked as a radio serviceman for Van Inwagen's Electric Store in downtown "Port".

The club met monthly at one of the member's houses. These were interesting get-togethers as it gave the hosting member the opportunity to show off his shack and whatever building project might be on the workbench. In the case of one or two of the members it might be a time to ooh and ah at a "factory made" receiver or at W2CUR's Silver Marshall transmitter! If we met at Roy Wyant's Furniture Store just across the Delaware River Bridge in Matamoras, PA W8ACI would show off his 500 watt AM 160-meter rig all within six-foot-tall aluminum enclosures. His 160-meter end-fed zepp antenna was stretched between the roof of the store building and the first span of the Delaware River Bridge. However, most meetings were held "down on the farm" at Montague, NJ at the home of W3AC. The door was always open for a meeting when others were unable to host one. Other members of the club included W2BLU, W2FPH, W2CUR, W2CVL, and W2LOR. Later members of the club included Jim Early W2KXF and Dick Eidel W2MHW (now WØRUP). In some ways I was Dick's Elmer as I remember him as "that little kid from West End" always showing up and asking questions. By this time I was "going to sea" and showing up in town between shipping assignments. Dick and I still contact each other occasionally now that he is retired from Collins Radio and living in Iowa.

Besides our regular meetings, we had a few annual events like the hobby show at the local YMCA. I set my station up in the director's office and sent "free radiograms" for the attendees. W3AC



The YMCA Hobby Show in Port Jervis, NY in 1939

had an interesting eye-catching display consisting of a 5-meter transmitter (self-excited oscillator) feeding a single turn loop all concealed under a card tabletop. It had neon bulbs and flashlight bulbs soldered to small loops of wire that glowed mysteriously on the tabletop causing wonder in the eyes of the attendees. "How can you short out a bulb and make it light?"

Another big event was a summertime trek up High Point Mountain five miles from town (the highest spot in New Jersey). From here we explored the mysteries of VHF working five meters from portable battery operated gear and working such DX as Boonton, NJ or even New York City 90 miles away! W3AC was a VHF pioneer and friend of Ed Tilton of ARRL. Another member, Howard Teeple, W2GXM received his license shortly after I did and to my knowledge never worked any band below 60 MHz. Howard was a great guy and always had room in his car for those of us without transportation.



Goyn Reinhart W3AC circa 1938. He became silent key in 1999 as W2AF. He is demonstrating his 5-meter mobile.

I still have my logbook showing our activity in the second annual ARRL Field Day. Using my call and a small portable station I had built in a suitcase, we operated 80 meter CW from atop Point Peter (a prominence 500 feet above the town). Power was from a storage battery and a vibrator supply -probably furnishing us with not more than 10 watts input but we worked nine stations in about as many states that night. The single wire antenna had a small pilot bulb in the center of the wire. In the middle of the night a police patrol car found its way up the mountain to inquire what the flashing light might be; as "people all over town" were reporting it to headquarters. We shorted out the bulb to satisfy the law.

We were among the first clubs to hold transmitter hunts (all on 5 meters). Everything was with the hot and cold method in those days -a Rushbox receiver in the car connected to a four-foot copper tubing vertical mounted on the cowl in front of the windshield. All equipment was home-brew. It just wasn't available on the market nor did anyone have the purchase price had it been! Hams from



Hey - that's me when I was W2GTW with my Field Day Rig.

"down Jersey way" flocked to Port Jervis for our annual hunts as most of these centered about High Point Park, NJ just five miles from Port Jervis and a favorite camping and vacation spot.

On one interesting event when I was "riding shotgun" with Howard Teeple, we had ventured into some mountainous farm area down a lonely road that ended in a pasture. At the end of the road sat an old dilapidated barn and a car parked alongside. The signal was strong. We thought we had found the transmitter! As we got out of our car three men emerged from the barn and approached us with a shotgun in hand. About this same time I noticed a whiff of smoke coming from a chimney behind the old barn and a peculiar smell in the air. We had uncovered a bootleg still!! Now, Howard had a speech problem. He spoke very well when not excited but when excited Howard couldn't say his own name so that you could recognize it! When the leader of the "gang" asked Howard and me for our names I spurted mine out without hesitation but I think it took Howard a full five minutes to explain to the leader who he was and what we were up to. "Those radio boxes and copper rods must be a 'still locator'!" The Port Jervis license plate was a saving grace as well as the name Teeple. "Are you any relation to Herbert Teeple?" one of the group asked. Howard stuttered, "He's my brother." (Herbert did a little bootlegging in Port Jervis.) "You know what you found. If we are raided we know where you live" warned the man. We never found that dam transmitter that day!

I get back home every two years to see my sister and her family and visit as many of the old gang as I can find. On my last visit I was able to have lunch with Goyn (W3AC/W2AF) and learned it was his 90th birthday (he has since become a Silent Key). His wife was in a rest home as was mine. W2LOR (Windy) was at home in Matamoras but on oxygen -we had a nice chat about "the old days". He died two months later. I stopped in at Paul Hess' Grocery Store

and said "Hello". Paul was an SWL that "never could learn code" but a faithful member of the club through the years and later a dedicated CB-er. They tell me that Jim Early W2KXF still is living and in upstate New York near Rochester. W2FRU died in a fall from a ladder decorating the college gym for his own graduation dance (1941). The other musketeer, Fred Berger (W8MFU) became an electrical engineer and retired in Venice, Florida. He too is gone now. It's getting lonely out here!



Taken at our 4th of July picnic in 1938 held with our sister radio club, you see Howard Teeple W2GXM above the second root beer bottle from the left.

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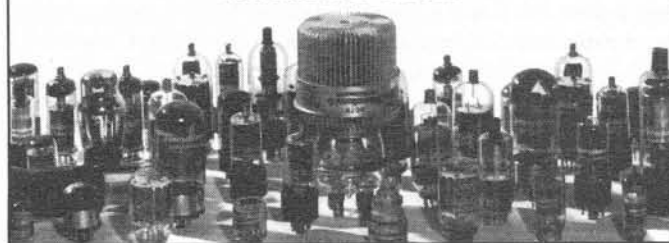
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LEMELSON-MIT PROGRAM BESTOWS LIFETIME ACHIEVEMENT AWARD TO "FOUNDING FATHER" OF WIRELESS COMMUNICATIONS

Al Gross Invented Walkie-Talkie, Pager, Cordless Phone - Shortened WWII With Early Wireless Innovations



Al Gross W8PAL

New York, NY, April 27, 2000 — The man who brought the world such indispensable wireless communications concepts and devices as the walkie-talkie, pager and cordless telephone was today named winner of the sixth annual Lemelson-MIT Lifetime Achievement Award for invention and innovation by the Lemelson-MIT Program. Al Gross is being recognized for his contributions as a true pioneer of miniaturized portable communications devices and for playing a major role in the wireless personal communications revolution.

Gross' first invention was the walkie-talkie, a small hand-held radio with two-way communication features, which he developed in 1938 while still in high school in Cleveland. The device - widely used today by police, firefighters, car service dispatchers and countless others - caught the attention of the Communications Group of the U.S. Office of Strategic Services (OSS), the forerunner of the U.S. Central Intelligence Agency, which promptly recruited Gross, and led to another important invention - a two-way air-to-ground communications system used during World War II.

The system, known as "Joan-Eleanor" and classified "top secret" until 1976, allowed OSS agents in occupied countries and Germany to communicate with high-flying aircraft. The ability to gather intelligence and safely communicate it from behind enemy lines helped expedite an end to the war and saved thousands of lives. The U.S. Joint Chiefs of Staff have called Gross' system one of the most successful wireless intelligence-gathering methods ever employed.

"Growing up, I fell in love with radio technology, but I wanted to take it everywhere with me," says Gross of his innovations. "The significance of my inventions today is the same as it was when I first developed them - mobility. The ability to communicate wherever you happen to be is extremely powerful and enables tremendous freedom. It's what will continue to fuel the worldwide popularity and insatiable demand for wireless devices."

Gross also invented the first wireless pager in 1949. Ubiquitous in today's society, the pager was initially intended for use by doctors. Ironically, Gross first introduced his pager at a medical convention, but it was rejected for fear the beeping device would upset patients and interrupt golf games. In the 1950s, Gross tried, again in vain, to interest US companies in his pager. The Federal Communications Commission (FCC) finally approved the use of

the pager in 1960. Today, over 300 million pagers are in use, according to widely published wireless industry statistics.

Gross enjoys speaking to students of all ages about technology and invention whenever the opportunity arises. "I try to get students to think about things from a perspective of uniqueness," says Gross. "I tell them that if you have something that looks different from everything else, it may be an innovation. At the same time, I recommend that parents encourage kids in their scientific endeavors in whatever way possible. I was fortunate enough to have parents who allowed me to experiment. My parents knew nothing of wireless communications technology, but they still encouraged me to pursue my radio studies." Gross' lifelong interest in radio communications began when he was just nine-years-old. While traveling aboard a steamboat on Lake Erie, the ship's radio operator allowed Gross to listen to the wireless. By the time he was 12, he had turned his parents' basement into an amateur radio station.

Gross continues to work as Senior Principal Electrical Engineer at Orbital Sciences Corp. (NYSE: ORB) in Chandler, Arizona, where he is involved with programs to explore Mars and other space environments and technologies. He has received numerous awards and honors during his distinguished career, including the 1999 Marconi Gold Medal of Achievement from the Wireless Operators Association and the Edwin Howard Armstrong Achievement Award from the Institute of Electrical and Electronics Engineers (IEEE).

Lemelson-MIT Board Chairman Professor Lester Thurow noted, "Al Gross' pioneering inventions, now pervasive, were ahead of their time. His early advocacy for the use of wireless personal communications, and boundless enthusiasm for sharing his knowledge with students of all ages are an inspiration to us all."

In receiving the Lemelson-MIT Lifetime Achievement Award, Gross joins such outstanding inventors as Stephanie Kwolek, the inventor of Kevlar(r) (used in a variety of products from bullet-proof vests to airplane bodies); Wilson Greatbatch, creator of the implantable cardiac pacemaker (the first successful major biomedical device); and the late Gertrude Elion, innovator of drugs that combat cancer and facilitate organ transplantation between non-related donors.

The Lemelson-MIT Lifetime Achievement Award is conferred annually by the Lemelson-MIT Program, which recognizes the nation's most talented inventors and innovators and promotes living role models in the fields of science, engineering, medicine and entrepreneurship in the hope of encouraging future generations to follow their example. One of America's most prolific inventors, Jerome H. Lemelson (1923-1997) and his wife, Dorothy, established the Lemelson-MIT Program at the Massachusetts Institute of Technology in 1994. Administered by MIT and based at the Sloan School of Management, the Program is under the guidance of internationally recognized economist Professor Lester C. Thurow.

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AL GROSS, TRAILBLAZER IN WIRELESS COMMUNICATIONS

"If it's a wireless mobile device that you're listening to, then yes, I am the precursor." That's how Al Gross sees his early inventions in the now booming field of portable, personalized two-way communications. His pioneering work began as a boy's hobby in the late 1920s, when Gross prevailed upon his father to buy him a crystal radio set and Al tuned in to the broadcasts of local amateur operators. "That was it, I became hooked on Hertzian radio waves and on developing ways to use my math and science learnings to make Ham Radio a moveable, hand-held experience," the innovator notes. By age 12, Gross had converted his family's Cleveland basement into an amateur radio headquarters, using equipment he'd salvaged and patched together from junkyards.

In 1940, he enrolled in the Electrical Engineering program at nearby Case School of Applied Sciences (now a part of Case Western University), and focused his energies upon creating a portable short-range transceiver before he graduated. "I studied the giants in my chosen field: Nikola Tesla's alternating current principles; Heinrich Hertz's artificial wave frequencies; Reginald Fessenden's use of Hertz's meter stick to measure wave lengths; and Michael Pupin's electromagnetic improvements." In addition, Gross remembers a close encounter with a living role model during his senior year: "I was selected from among my classmates to attend a lecture at Princeton University given by Albert Einstein - that was a thrill to be knowingly in the presence of greatness."

By 1938, he had developed and tested a small portable high-frequency radio, which he dubbed a "walkie-talkie," with interesting two-way communication features. "At the time, I did not see this unit as an invention per se, but I knew I was on to something because all my Ham friends liked it and said it was different." World War II broke out just as a write-up about Gross' innovation was appearing in a radio magazine. It did not take long for his walkie-talkie to catch the U.S. Army's attention: William "Wild Bill" Donovan, head of the Office of Strategic Services (OSS), precursor to the Central Intelligence Agency, recruited Gross and asked him to develop a two-way, air-to-ground system for covert use by advance troops behind enemy lines to communicate intelligence to similarly-equipped RAF Mosquito bomber pilots. By 1941, Gross had perfected this top-secret project, code-named "Joan-Eleanor," so much that the U.S. Joint Chiefs of Staff put it among "our most successful wireless intelligence-gathering operations, saving millions of lives by shortening the war."

After the war the Federal Communications Commission (FCC) allocated the very first frequencies for the newly formed Citizens Radio Service Frequency Band. Gross left the employ of the OSS Communications Group and set up Gross Electronics Inc., to make 11-ounce walkie-talkie sets for private use. In 1948, equipment made by his re-named company - Citizens Radio Corporation - was also the first to win FCC approval for use in the new "Citizens' Band."

The inventor-turned-entrepreneur comments: "My first 25,000-unit sale came in three orders from a mass merchandiser for farmers and wholesalers; and after selling 100,000 units myself to hunters, mountain climbers, car-owners and boaters (even the Coast Guard for buoy-tending), I licensed the technology to various electronics companies."

Despite these early commercial successes, many of Al Gross' visionary mobile wireless inventions were far ahead of his generation's ability to make practical use of them. By 1949, Gross was developing and securing patents for a widening array of products, including a functional forerunner of the "Dick Tracy" wristwatch transmitter and a predecessor of today's ubiquitous cellular beepers and paging devices. The wristwatch was equipped with an embedded wireless microphone; it caught the fancy of cartoonist Chester Gould, who was already impressed with the invention. "In October 1948, Gould called and asked me if he could use the walkie-talkie idea on the wristwatch," Gross explains. "I told him sure- yes. And he gave Dick Tracy that two-way wristwatch idea."

Gross' pager invention proved to be an even harder sell, amazingly. The pager, a version of his two-way radios adapted for cordless remote telephonic signaling, was a pocket-sized wireless receiver equipped with discriminating micro-circuitry that responded selectively to specific signals. Gross intended his pager for use by doctors away from their offices, but when it was demonstrated at a medical convention in Philadelphia, none of the healthcare professionals were impressed. In fact, many felt the beepers would upset their patients or their nurses, and others fretted that it might disrupt their golf outings! Millions of consumers worldwide now use these devices; as Gross puts it: "Finally the media helped to popularize my invention, but it took more than a decade and a half for it to be accepted."

All through the 1950s and '60s, Gross continued to invent mobile personal communications devices, securing 12 patents for various cell and cordless phone devices, while working for his own company and for the U.S. government. The FCC, to which Gross had demonstrated his pager system in 1950, finally approved his transceivers in 1958; but American telephone companies were much slower to take up his inventions. "All of my patents pretty much expired before my inventions caught fire. I guess I was born 35 years too soon to be a millionaire today, but the thrill of inventing is not just about the money, it's about having fun and making a difference for your fellow humans," he explains.

Eventually, Gross began working as a microwave and other electronic communications systems specialist in the research divisions of large companies, including Sperry, GTE Communications Systems, Westinghouse Electric and AG Communications. Since 1990, he has worked as a senior principal electrical engineer for Orbital Sciences Corporation in Chandler, AZ, where he specializes in electromagnetic compatibility and in interference research and electrostatic discharge analyses for aerospace, satellite and military electrical and electronic systems.

"The space environment and technology is where we will see great breakthroughs early in this century, particularly in tracking and global positioning devices," Gross notes.

"The Lemelson-MIT Program is a great concept," he adds. "It encourages kids to find role models in the invention process; that's what I love to do - to make them realize that math and science can be great fun, and help them to make a difference through applying their ideas." He enjoys public speaking and relishes the opportunity to impart his historical perspective to making invention more than a hobby, rather a career.

Al Gross and his wife, Ethel, are residents of Sun City, AZ. Gross is a Life Fellow of the Radio Club of America (RCA) and of the Institute of Electrical and Electronics Engineers (IEEE), from which he has received much recognition, including RCA's 1992 Fred B. Link Award and IEEE's 1999 Edwin Howard Armstrong Achievement Award and Medal. He is also a member of the World Personal Radio Congress, as well as an Honorary Permanent Member of the International Telecommunications Union. Gross was awarded the 1997 Marconi Memorial Gold Medal of Achievement by the Veteran Wireless Operators Association. In 1981, he was given a Presidential Commendation in Telecommunications from Ronald Reagan.

Administered by the Massachusetts Institute of Technology and based at the Sloan School of Management in Cambridge, MA, the Lemelson-MIT Program was established in 1994 by independent inventor Jerome H. Lemelson (1923-1997) and his wife, Dorothy. The program recognizes the nation's most talented inventors and innovators and celebrates inspirational role models in the fields of science, engineering, medicine and entrepreneurship, in the hope of encouraging future generations to follow their example.

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07/06/2000	30487	CALDWELL, JOHN	WA7KGY	VANCOUVER	WA	FLOYD RIEMENSCHNEIDER	K7MGA
07/06/2000	30488	HELLMAN, LEONARD	K4LZP	MELBOURNE	FL	-	-
07/06/2000	30489	WILSON, GLADYS M	WB5IBB	FT WORTH	TX	JAMES V WILSON	WA5SLJ
07/07/2000	30490	LECHLEITER, LEWIS T	AF4XW	BARTLETT	TN	WES RANGLES	W4COW
07/10/2000	30491	WHITAKER, EDGAR	K2DLL	BALLSTON SPA	NY	DAVE BARGOVIC	NR2J
07/10/2000	30492	EWAN, BILL	W1VH	WEST HARTFORD	CT	AL COHEN	W1FXQ
07/10/2000	30493	SINE, HOWARD A	WB4WXE	VALLEY HEAD	AL	-	-
07/10/2000	30494	HERZIG, ANDREAS	DM5JBN	GERMANY		WERNER LEMBCKE	DL1ZC
07/10/2000	30495	WOLFSON, MITCH	DJ0QN	GERMANY		WERNER LEMBCKE	DL1ZC
07/10/2000	30496	WITTMANN, SIGRID	DL3LG	GERMANY		WERNER LEMBCKE	DL1ZC
07/10/2000	30497	TANGERMANN, WOLF PETER	DK1WC	GERMANY		WERNER LEMBCKE	DL1ZC
07/11/2000	30498	DEATRICK, DAVID P	WA8OLD	SAULT STE MARIE	MI	-	-
07/14/2000	30499	FOLTZ, RANDY B	K7TQ	MOSCOW	ID	-	-
07/14/2000	30500	WINANS, WALKER D	WB5MPV	BATON ROUGE	LA	L WAYNE GORDON	K5EOA
07/17/2000	30501	MIASTKOWSKI, STANLEY M	WA1UMV	PETERBOROUGH	NH	ROBERT A SHOTWELL	WA1KUZ
07/17/2000	30502	EATON, WILLIAM R	WX5G	HOUSTON	TX	-	-
07/17/2000	30503	ERTS, RALPH E	W0SMY	OMAHA	NE	MILT KROGSTAD	W0FKG
07/17/2000	30504	GOODRICH, ROBERT D	WA3ZAO	PORT ORANGE	FL	WES RANGLES	W4COW
07/17/2000	30505	HAMILTON, PHIL	W4KTL	STATESVILLE	NC	-	-
07/17/2000	30506	RICH, ROSALYN A	KC7ZGQ	LOS ANGELES	CA	-	-
07/18/2000	30507	MC CULLEY, RON	K0RJS	WICHITA	KS	-	-
07/18/2000	30508	NORRIS, STEPHEN L	K5ZP	NEW BRAUNFELS	TX	-	-
07/18/2000	30509	BERG, KENNETH ARNOLD	VE7KEN	KELOWNA	BC	-	-
07/21/2000	30510	BOWGREN, LEE W	WK2T	LAS VEGAS	NV	LELAND W SMITH JR	W4YE
07/21/2000	30511	METCALFE, FRED C	N6FME	ARCATA	CA	-	-
07/24/2000	30512	JOHNSON, EDWARD A	W4UZG	ORLANDO	FL	CHARLES ALLEN	K4AXB
07/24/2000	30513	LHOTA, BOB	W0PTI	DYERSBURG	TN	-	-
07/24/2000	30514	HAMILTON, DAVID J	WA9MZZ	PLYMOUTH	MN	-	-
07/24/2000	30515	HOLLERBACH, JAMES R	KF4FAH	RIDGEVILLE	SC	-	-
07/26/2000	30516	SCATTERGOOD, LESTER W	WB6DXR	PETALUMA	CA	-	-
07/26/2000	30517	COREY, ALAN G	K6JKC	SUSANVILLE	CA	-	-
07/27/2000	30518	BALLINGER, STUART L	WA2BSS	POUGHKEEPSIE	NY	ART BONTE	W2ZYC
07/27/2000	30519	KING, E A	KD5KJI	WICHITA FALLS	TX	CHARLES NEA	W5NRI
07/27/2000	30520	MILLSAP, JAMES W	W9CTO	HIGHLAND	IN	RON BANASZA	W9FB
07/31/2000	30521	DESCHENES, JULES P	W1GDE	LACONIA	NH	-	-
07/31/2000	30522	DESCHENES, LORRAINE R	W1LRD	LACONIA	NH	-	-
07/31/2000	30523	HANNA, MARTHA J	K8AAC	TOLEDO	OH	ROBERT N HANNA	K8ADK
07/31/2000	30524	STEELS, DAVID	VE3UZ	LONDON	ON	BILL HARDIE	VE3EFX
08/02/2000	30525	ORTON, JOHN B	WA6BOB	CHATSWORTH	CA	-	-
08/03/2000	30526	KEY, MICHAEL W	KC5RPT	OVERBROOK	OK	GENE NAILON	K5DLE
08/03/2000	30527	ZELINGER, FRED F	W5PBO	OKALHOMA CITY	OK	GENE NAILON	K5DLE
08/04/2000	30528	KELSEY, PATRICK L	AB5RB	ASHEVILLE	NC	DUKE KNIEF	W4DK
08/07/2000	30529	ENGES, WILLIAM D	W8TCY	CRESTLINE	CA	EARLE G ANTEN	KM6WM
08/07/2000	30530	SIEGEL, STANLEY	W2ST	BEDFORD	NY	-	-
08/07/2000	30531	HANN, JOHN	VA3LKH	GUELPH	ON	HAROLD BRAUN	VE3DWH
08/08/2000	30532	MARTIN, CHARLES F	WB8LDV	MENTOR	OH	ROCKY ZIMMERMAN	W8UYN
08/09/2000	30533	MULLIKIN, RICHARD A	W4BZW	CHARLOTTESVILLE	VA	ERNEST V SARDI	W2EIU
08/10/2000	30534	DAVIS, DONALD L	AD6PB	CARSON	CA	-	-
08/10/2000	30535	WRIGHT, PHILLIP N	WB5HQN	BELLA VISTA	AR	-	-
08/11/2000	30536	DEVINE, DONALD E	KC1RX	OVIDO	FL	PAUL TUNER	W1DLP8
08/11/2000	30537	KERSUS, GERALD J	W1GD	WALL	NJ	JOHN P GAGEN	W2YR
08/14/2000	30538	NASTASI, JOHN E	W5CBB	BATON ROUGE	LA	AL HEINE	W5OVV
08/14/2000	30539	SCHOR, WARREN	KD3GA	BETHESDA	MD	-	-
08/14/2000	30540	WOOD, GUY B	W1UEA	DALTON	PA	HARRY J MILLS	K4HU
08/17/2000	30541	GOINGS, JOEL D	AA4P	MOULTRIE	GA	DALE A CULP	W1BPP

New Members

08/17/2000 30542	EISEN, GERALD P	WB8WCE	RICHMOND HTS	OH	-	-	
08/17/2000 30543	HESS, JOSEPH W	KU3N	SWARTHMORE	PA	-	THOMAS W JOHNSTON JR	W3TDZ
08/17/2000 30544	HOBBIIE, RUSSELL K	W0QG	ST PAUL	MN	-	-	
08/17/2000 30545	MARQUIE, STEVEN A	W8TOW	EAST LANSING	MI	-	DON DEVENDORF	W8EGI
08/18/2000 30546	CARY, EDDIE LYNN	WA4EGQ	GREENVILLE	KY	-	JERRY BROUDY	W7DAD
08/21/2000 30547	HILL, CHRIS M	KG8JF	BEACHWOOD	OH	-	-	
08/21/2000 30548	THOMPSON, JAMES B	WA3YOL	JOHNSTOWN	PA	-	-	
08/22/2000 30549	HINKLE, ROBERT D	KA1RI	PARMA HEIGHTS	OH	-	ROCKY ZIMMERMAN	W8UYN
08/24/2000 30550	ARMSTRONG, GERALD	KB7BE	BRINNON	WA	-	-	
08/24/2000 30551	BRENTLINGER, THEODORE J	WB9QFE	TERRE HAUTE	IN	-	MARAVIN CARMONY	W9KT
08/25/2000 30552	CASEY, JEFF T	WB5GWB	EAST SETAUKET	NY	-	-	
08/25/2000 30553	GELBORT, JIM	N9WW	CICAGO	IL	-	-	
08/25/2000 30554	GREENBERG, RON	W6AEK	REDDING	CA	-	-	
08/28/2000 30555	KNIGHT, GARY	AI5T	AUSTIN	TX	-	PETER R JORDAHL	K5GM
08/28/2000 30556	GRENSEMAN, DONALD M	W7UB	WALLA WALLA	WA	-	-	
08/28/2000 30557	COUNTER, MARY F	WB6WCK	SAN DIEGO	CA	-	-	
08/28/2000 30558	RICHTER, JOERG	DJ9BC	GERMANY		-	WENER LEMBCKE	DL1ZC
08/28/2000 30559	BARENDT, ECKART	DJ6EB	GERMANY		-	WERNER LEMBCKE	DL1ZC
08/28/2000 30560	NENTWICH, WERNER	DL2HK	GERMANY		-	WERNER LEMBCKE	DL1ZC
08/28/2000 30561	GUTLINGER, HERBERT	DK7QB	GERMANY		-	WERNER LEMBCKE	DL1ZC
08/28/2000 30562	GOLZ, HUBERTUS	DJ1HN	GERMANY		-	WERNER LEMBCKE	DL1ZC
08/28/2000 30563	ROSENTHAL, LUTZ	DL2VEL	GERMANY		-	WERNER LEMBCKE	DL1ZC
08/28/2000 30564	HARDT, RENNI	DK6VV	GERMANY		-	WERNER LEMBCKE	DL1ZC
08/31/2000 30565	HANNON, HOWARD A	KD8DX	SAGINAW	MI	-	DUANE A VASOLD	K8CCE
08/31/2000 30566	HRIVNAK, EMIL E	N3EH	BOALSBURG	PA	-	JOHN PASSANEAU	W3JXP
08/31/2000 30567	WILL, DANIEL C JR	KE7OI	EMMETT	ID	-	-	
09/01/2000 30568	GUERNSEY, JEFF	KD0YP	SALINA	KS	-	GARY HARRISON	K0BC
09/05/2000 30569	MOUNT, JOSEPH T	WB2KAK	NEPTUNE	NJ	-	BERNIE RICCIARDI	WB2EJT
09/05/2000 30570	RODRIGUEZ, ROBERTO	AD6LZ	BERKELEY	CA	-	-	
09/05/2000 30571	GUSTAT, EDWARD P	W1FBI	PEABODY	MA	-	-	
09/05/2000 30572	WOOLEN, JAMES R	K4UIH	DULUTH	GA	-	-	
09/05/2000 30573	SEFRANEK, THOMAS C	WA1RHP	SHIRLEY	MA	-	BLANCHE RANGLES	W4GXZ
09/05/2000 30574	CLEMENTS, JOHN HENRY	WA1RWN	ARLINGTON	MA	-	BLANCHE RANGLES	W4GXZ
09/05/2000 30575	DE PRIMO, JOHN G	K1JD	JAMESTOWN	RI	-	A MANNA	WA1ENO
09/05/2000 30576	DOULD, JOHN F	AE1B	ATHOL	MA	-	BLANCHE RANGLES	W4GXZ
09/05/2000 30577	GERNS, W DAVID	K1LD	PLAISTOW	NH	-	CHARLES LUKAS	W1DOH
09/06/2000 30578	LAPOINTE, THOMAS J	WA1LBK	FALL RIVER	MA	-	HAROLD CHASE	W1EES
09/06/2000 30579	MAC LENNAN, IAN	AF1R	NEEDHAM HEIGHTS	MA	-	CHARLES LUKAS	W1DOH
09/06/2000 30580	MILHANS, CHARLES A	KC0CE	LEOMINSTER	MA	-	BLANCHE RANGLES	W4GXZ
09/06/2000 30581	RODOWICZ, STEFAN J	N1SR	CHICOPEE	MA	-	HAROLD CHASE	W1EES
09/06/2000 30582	THOMAS, PETER C	K2XM	HUDSON	NH	-	HAROLD CHASE	W1EES
09/06/2000 30583	VETH, ROBERT J	WA1VIE	CHELMSFORD	MA	-	A MANNA	WA1ENO
09/06/2000 30584	WALSH, TOM	K1TW	BEDFORD	MA	-	HAROLD CHASE	W1EES
09/06/2000 30585	WALUS, LEE R	W0UG	BEDFORD	MA	-	CHARLES LUKAS	W1DOH
09/06/2000 30586	WRIGHT, RICHARD E	W1UC	ACTON	MA	-	HAROLD CHASE	W1EES
09/06/2000 30587	SMALL, DWIGHT	W1LGR	MERRIMACK	NH	-	HAROLD CHASE	W1EES
09/07/2000 30588	CLARK, JOHN W	VE3GRG	MOUNT BRYDGES	ON	-	-	
09/08/2000 30589	GILLESPIE, DAVID L	WA4LLR	MICAVILLE	NC	-	DUKE KNIEF	W4DK
09/08/2000 30590	SCHEIDT, MIKE	N0NAN	WICHITA	KS	-	-	
09/11/2000 30591	COUNTER, JAMES M	K6AIP	SAN DIEGO	CA	-	MARY F COUNTER	WB6WCK
09/11/2000 30592	BONIFIELD, THOMAS R	KN9DRI	BAINBRIDGE ISLAND	WA	-	-	
09/11/2000 30593	GERMANOS, JOHN	WB9PNU	SUNSET HILLS	MO	-	KENNETH D SCOTT	W9VHL
09/11/2000 30594	HULL, RONNIE	W5SUM	SHREVEPORT	LA	-	ROGER LEY	WA9PZL
09/12/2000 30595	WOLKOVE, BERNARD	VE2IQB	SEBRING	FL	-	-	
09/15/2000 30596	SMITH, ROBERT W	K1ODW	HOPKINTON	MA	-	BLANCHE RANGLES	W4GXZ
09/18/2000 30597	SERAFINI, DANIEL JOHN	W9CP	GRANVILLE	IL	-	-	
09/18/2000 30598	TILLER, WILLIAM EDWARD	WA6GIM	REDWOOD CITY	CA	-	WILLIAM J MORESI	W6ZZT
09/18/2000 30599	WILLIAMS, JAMES E	KF7MW	MILAN	MI	-	-	
09/18/2000 30600	PEDERSON, GARY R	WA7MUY	ASHLAND	OR	-	-	
09/18/2000 30601	TAYLOR, JONATHAN P	K1RFD	RIDGEFIELD	CT	-	-	
09/20/2000 30602	MIHAJLOVIC, DRAGAN	VE3FF	MISSISSAUGA	ON	-	-	
09/22/2000 30603	EBEJER, JOHN P	K8DSL	NORTHVILLE	MI	-	-	
09/25/2000 30604	BRENNER, PAUL R	W6RLF	ROSS	CA	-	-	
09/25/2000 30605	GOLDSTEIN, BERNARD	W2MNP	SUNRISE	FL	-	STEVE FRIED	K2PTS
09/25/2000 30606	HOSKINSON, WILLIAM T	K4CUO	TITUSVILLE	FL	-	-	
09/25/2000 30607	RODENBARGER, JOHN A	WB9OFG	BROOKSTON	IN	-	-	
09/26/2000 30608	CLARK, MARK A	W4CK	FAYETTEVILLE	TN	-	-	
09/26/2000 30609	HUNGERFORD, JOEL C	KB1EGI	NEWPORT	OR	-	HOBART C CLARK	W6TCA

Chapters on the Air

NO	NAME	DAY	TIME	NC	FREQ	NO	NAME	DAY	TIME	NC	FREQ
	SO CALIF CW	SUN	1100L	W6WHM	7034	81	LONG ISLAND CH	FRI	2030L	K2YAW	146.746
	FL SSB	SAT	1300Z	W4NWF	3955	85	ARK-LA-TEX CH	MON	1930L	WA9PZL	146.67
	QCWA SSB	SUN	2000Z	varies	14347	87	EVERGREEN CH	SUN	1500Z	VARIES	3984
	FL SSB	WED	1500Z	W4NWF	7274	89	PALMETTO CH	SUN	1700L	VARIES	3695
	NE REGIONAL	SUN	0845L	W2AUF	3917	89	PALMETTO STATE CH	SAT	0900L	K4MFU	3930
	QCWA CW	WED	2000E	varies	7035	91	VIC CLARK CH	SUN	0900L	VARIES	146.79
1	CLEVELAND CH	WED	2000L	W8LYDW	146.88	92	NORTHERN LIGHTS	SUN	2000L	KL7CDG	146.97
2	CHICAGO AREA CH	1stTh	2130L	W9MOL	147.15	94	ROADRUNNER CH	WED	1400L	WB5YYX	146.72
4	NORTHWEST CH	SUN	1200L	W7PN	3952	95	EASTERN NY	SUN	1130L	WB1M	3900
4	NORTHWEST CH	SUN	0800L	W7PN	3650	96	GATEWAY CH	SAT	1600Z	W4KGT	3937
5	DELAWARE VALLEY CH	SUN	0945L	W2UAE	3917	102	DAKOTA CH	SUN	1400Z	VARIES	3889
6	PITTSBURGH CH	SUN	0830L	W8CSU	147.03	105	MIDDLE TN CH	THU	2000L	VARIES	146.91
7	SOUTHERN CA	SUN	1000L	W6ZRZ	147.36+	106	GERMAN CH	MON	1700Z	DLOQCW	3669
7	SOUTHERN CA	SUN	0900L	W6WHM	3917	106	GERMAN CH	TUE	1700Z	DL1MEB	3573
7	SOUTHERN CA	SUN	1100L	W6WHM	7234	107	CENTRAL FL	THU	1230L	W4LHP	14245
8	UPPER MIDWEST CH	SAT	0800L	W0KHG	3877	107	CENTRAL FL	SAT	0900L	W4LHP	7243
9	SOUTHWEST OH	SUN	1330L	K8YDP	3975	108	BEAVER STATE CH	WED	0800L	W7LVN	3926
10	MICHIGAN CH	SUN	0800L	VARIES	3903	109	BATON ROUGE CH	SUN	2000L	VARIES	146.79
11	NORTHERN CA	SAT	1000L	W6AQR	146.85-	109	BATON ROUGE CH	SUN	0830L	VARIES	3905
11	NORTHERN CA	SUN	0930L	WA6AFT	3907	110	KANSAS CH	SAT	0730L	KA0RZO	3920
14	SAN DIEGO CH	WED	2000L	K6QS	145.52	112	YANKEE CH	SUN	0830L	W1GCA	3903
16	ARIZONA CH	SUN	0630L	W7ER	3890	114	NORTH TEXAS CH	SAT	0830L	WA5BXH	3941.5
17	ALLEN TOWN-BETHLEHEM	SUN	1200L	VARIES	3990	122	LAKE ERIE TRI-STATE	SUN	0915L	W3QPP	3916
19	MISSOURI CH	WED	1930L	W9VHL	147.15+	123	LEE DEFOREST CH	SAT	0730L	VARIES	3940
20	BALTIMORE CH	MON	2100L	W3EE	147.285	126	PIEDMONT CH	SAT	0845L	VARIES	3935
21	CANTON OH CH	THU	1930L	WA8DRT	147.180	128	PELICAN CH	SAT	0900L	VARIES	145.29
25	NEBRASKA CH	TUE	0100Z	VARIES	146.94	130	INLAND EMPIRE	WED	1930L	W6HV	1.896MH
25	NEBRASKA CH	SAT	1430Z	VARIES	3982	130	INLAND EMPIRE	FRI	1600L	W6HV	3862
28	CENTRAL NY	SUN	1030L	K2MFB	3917	130	INLAND EMPIRE	SAT	0800L	W6HV	3862
29	FINGER LAKES CH	SUN	1230L	W2BCH	3900	131	GULF COAST CH	TUE	0900L	VARIES	28750
31	READING, PA CH	MON	2100L	VARIES	146.91	134	PINE TREE	SUN	1930Z	VARIES	3942
32	GATOR CH	SAT	0900L	VARIES	145.29	135	MID-MICHIGAN CH	TUE	2000L	VARIES	146.70
33	GUNDERSON PENN-JERSEY	DLY	2000L	W3APE	3987	138	MARCONI CH	TUE	2100L	VARIES	147.045
35	MIDCONTINENT CH	THU	2030L	K0YML	146.97	140	WYOMING CH	SAT	0800L	W7MZWV	3923
36	NORTHWEST IN	THU	2000L	N9MRS	3703	141	HI-PLAINS CH	SAT	0900L	W5MVJ	3933
36	NORTHWEST IN	WED	1930L	N9MRS	147.495	142	NORTHWEST OH	WED	2000L	W8FO	147.27+
37	HARRISBURG CH	WED	2100L	K3IUY	147.12	143	NORTH CO CH	SUN	0830L	VARIES	145.115
38	SAN ANTONIO CH	SUN	2030L	W5HRF	28650	146	TWIN STATE CH	SUN	0830L	WA1NBI	3897
41	DALLAS CH	SUN	0715L	varies	3835	149	NUTMEG CH	SUN	1130L	W1KHL	3923
42	MOHAWK VALLEY CH	LSUN	2000L	VARIES	145.45	150	DEL-MAR-VA CH	SUN	0900L	K3PFV	146.280
45	CITRUS CH	TUE	1930L	VARIES	147.195	151	WILD ROSE CH	MON	1900L	VARIES	3747
46	FOUNDER'S CH	SUN	0845L	W2AUF	3917	152	ROYAL PALM CH	T-TH	1300L	K4FA	14178
46	FOUNDER'S CH	THU	2030L	W2AUF	147.36	152	ROYAL PALM CH	MWF	1300L	W4LZV	7220
48	TREASURE COAST CH	DLY	0800L	KD2XD	7153	154	LEO MEYERSON CH	THUR	1830L	K6AWO	145.480
48	TREASURE COAST CH	DLY	1700L	KD2XD	14,176	157	PONY EXPRESS CH	SUN	0830L	W0GGP	3955
49	PEACH STATE CH	WED	2000E	W9BKJ	145.41	160	UTAH CH	SAT	1100L	VARIES	7272
49	PEACH STATE CH	SAT	0900E	W9BKJK	3857.5	162	SOUTHEAST WI	THU	2100L	N9NBC	147.27
51	TEX-LA GOLDEN TRI	MON	1830L	WA5YCW	146.86	165	YORK COUNTY PA	WED	2100L	W3AXC	146.97
54	TYLER CH	MON	1930L	W5RRM	28.650	169	SACRAMENTO VALLEY	M/THU	1730L	VARIES	3947.5
55	WI CH	SUN	0830L	VARIES	3985	173	GOLDEN TRI CH	TUE	1930L	W9JRY	147.255
58	CO CH	SUN	0900L	W9KRE	3905	174	WI BADGER	SUN	1600L	VARIES	146.82
58	CO CH	SUN	0930L	VARIES	146.67	180	FOOTHILLS / OZARK	SAT	0800L	K0DEW	3861
62	SUWANNEE CH	SAT	0900L	W4PFJ	3940	181	HUDSON VALLEY CH	TUE	2030L	WA2RRK	147.060
63	CENTRAL OK CH	THU	1900L	W5AS	145.41	181	HUDSON VALLEY	SUN	0815L	W20ZA	3917
63	CENTRAL OK CH	SUN	0800L	W5AS	3855	182	NORTHEAST TN	SUN	2100L	W4EHI	145.110
64	EL PASO CH	SAT	0830L	W5RO	3933	183	PIONEER CH	SUN	1030L	W1ALL	3923
65	NIAGARA FRONTIER	SUN	1330L	W2SD	3900	188	LOST RIVER CH	1ST W	1915L	K7RFO	146.85
67	AUSTIN CH	SAT	0900L	N5WU	3920	191	MONTEREY BAY CH	TUES	1930L	W6TUW	146.70
70	NATIONAL CAPITAL	THU	2000L	VE3QCW	147.03	192	PUERTO RICO CH	WED	1900Z	VARIES	146.850
73	SOUTHERN ONTARIO	SUN	0900L	VE3AGS	3773	194	HAWAII CH	1st S	1500L	VARIES	7088
75	CENTRAL CA COAST	SAT	0800L	VARIES	3917	195	SUN CITY CH	SAT	0900L	VARIES	145.29
76	BLUE RIDGE CH	SAT	1000L	W4LSK	3930	196	EDISON CH	DAILY	0730L	VARIES	147.345
77	NORTHERN NJ	SUN	1300L	N2XJ	3917	196	EDISON CH	DAILY	0730L	VARIES	147.345
77	NORTHERN NJ	THU	2000L	W2IET	147.030	198	MID SIERRA CH	SAT	0700L	W6JTA	3906
79	SUNFLOWER CH	WED	2100L	VARIES	146.82	199	PHIL LEIBLE CH	SUN	0930L	WA0ZNI	3905
81	LONG ISLAND QCWA CH	SUN	1130L	W2TLC	3917	203	GILBERT CROSSLEY	2WED	2000E	VARIES	146.85

Silent Keys

With sadness we record the passing of these members

NAME	CALL	MEMNUM	L	SK	CITY	STATE
HARRINGTON, LOU F	W0LM	09575		2000	DENVER	CO
EGERTON, GEORGE L	K1FWK	22908		2000	ENFIELD	CT
DANE, CARLETON M	W1FXK	18107		2000	EL PASO	TX
YOUNG, NORMAN H	W1HX	01446		2000	EL PASO	TX
MC COY, LEWIS G	W1ICP	08556	*	2000	MESA	AZ
FIFE, WALTER M	K1VJI	24476		2000	STOCKTON SPRINGS	ME
HEILBRONER, JULIAN	WD2ADT	16882		2000	RYE	NY
TRAUTVETTER, JOHN F	K2IGH	21759		2000	FORKED RIVER	NJ
STUHLER, R E	W2OQ	04914	*	2000	MASSAPEQUA	NY
NAFTZINGER, PAUL F	W3AHF	06754		2000	READING	PA
MONYER, HAROLD A	KB3AHT	25478		2000	READING	PA
ARCHIBALD, DONALD C	VE3BFQ	10750		2000	TORONTO	ON
BLAIR, FRANK W	W3DES	24872		2000	WYOMISSING	PA
TARDIFF, L CHARLES	W3EHG	18369		2000	ST PETERSBURG	FL
KULP, EARL LINWOOD	W3EXM	09334		2000	POTTSTOWN	PA
WALDRON, JAMES M	K3GQX	17649		2000	WILSON	NY
GLEASON, ROBERT J	W3KW	02029	*	2000	ANNAPOLIS	MD
SMITH, KENNETH EARL	W3SLA	20527		2000	WYOMISSING	PA
GRIFFIN, H CLAY	W4DXI	06732		2000	EAST POINT	GA
NELSON, EUGENE L	K4ECL	23081		1999	ROCKLEDGE	FL
MILLER, J WILLIAM	K4MM	06196	*	2000	FAIRFAX	VA
LEVY, TRACY	W4YN	13287		2000	MERRITT ISLAND	FL
GAVIN, J MAX	W5ODF	17823	*	2000	LITTLE ROCK	AR
CROWDER, GLENN E	W5SME	26503		2000	SAN ANTONIO	TX
BREWER, M S	W6JU	01126		2000	LOS OSOS	CA
RAMSEY, WARNER H	W6KMC	08570		2000	NEW HALL	CA
WEIR, ROLAND L	W6UCF	26344		2000	KLAMATH FALLS	OR
SANDERS, BILL	W7DAA	12647		2000	SALEM	OR
BURKHER, HOWARD H	KL7DQ	16513		2000	ANCHORAGE	AK
GROOMER, LOGAN G	KL7EKI	20923		2000	WASILLA	AK
DAUGHTERY, WILLIAM M	KC7EN	16762		2000	ALBUQUERQUE	NM
ADAMS, EZRA JOHN	W7GZN	21848	*	2000	YAKIMA	WA
SNYDER, HARRY C	W7HC	07448		2000	CAREFREE	AZ
WILSON, GEORGE D	W7HF	00478		2000	ABERDEEN	WA
WAUCHOPE, T V	W7LI	01858	*	2000	PORTLAND	OR
HOUGH, ROBERT D	W8ESQ	02960		2000	ELKINS	WV
ODELL, MALCOLM P	W8PFO	20120		2000	ST PETERSBURG	FL
ESTERLY, JOHN R	W8RAK	14115		2000	WESTLAKE	OH
SCARVACI, JOHN C	W9GIL	04225	*	2000	GRAFTON	WI
BRANKIN, PHILIP P	K9PB	17504	*	2000	HOMETOWN	IL
DOUGHTY, WILLIAM E	W9UIX	21421		2000	ATLANTA	GA

In the Fall issue of the QCWA Journal there was an unfortunate error in the Silent Key Column. Rodney D Stewart, K5IBF is very much alive and we are very sorry for the error.

WA6FDI was listed as a SK member in the last edition of the Journal, and this is incorrect. We apologize for this submission.

Member Supplies

Certificates

Membership Certificates are numbered in serial order and are issued to each member. Numbers are not reissued except to the same member to whom they were first issued.

QCWA Gold Certificates celebrate the 50th anniversary of licensing. Issued without charge to eligible members upon proof of year of first license.

Gold Certificates are issued in five year increments; 55, 60, 65, 70 and 75 year certificates free of charge to eligible members.

Fifty Year Continuous Licensing Gold Certificate available to eligible members. Requires submission of proof of continuous licensing. There is a \$5 fee for this certificate. Applications are available from QCWA Headquarters.

QCWA Century Club Certificate is issued to QCWA members whose age, when added to their number of years as a QCWA member totals 100 or more. No charge for this certificate.

Meritorious Award Certificate is issued by Headquarters upon request of any active QCWA chapter. One such award is authorized for each chapter each year. The award may be given to recognize unusual dedication to QCWA or amateur radio. No charge for the award.

Operating Awards

QCWA Operating Award Certificates are issued to QCWA members by the Activities Manager. Proof of eligibility is required.

QCWA Worked 50 States Awards are issued to QCWA members who have contacted members in each state of the union.

QCWA Worked 100 Members Awards are issued to QCWA members who have contacted at least 100 QCWA members.

QCWA Worked 60 Chapters Awards are issued to QCWA members who have contacted members of 60 chapters.

QCWA Worked 500 Members Awards are issued to QCWA members who have contacted 500 QCWA members.

QCWA Lapel Pins

Without year tags, tie-tack, safety pin or screw type. Plain pins (no year) - \$10

With year tags (clutch-type only). Specify year; 25, 30, 35, 40, 45, 50, 55, 60, 65, 70 or 75 - \$15

QCWA Life Member pin - \$5

Other Member Supplies

QCWA Embroidered emblem - \$5

450 QCWA Red Stamps (regular) - \$3

450 QCWA Gold Stamps (life) - \$3

400 QCWA Yellow Stamps (50 Year) - \$3

QCWA Cap with logo - \$5

QCWA Chapter Banner - \$200

QCWA Decals - \$1

QCWA QSL cards - (see ad elsewhere)

Please send your order to QCWA Headquarters, 159 E. 16th Ave., Eugene, OR 97401-4017.

Phone (inquiries only, no orders): 541-683-0987, Fax 541-683-4181

We accept orders charged to credit cards.

Member Classified

WANTED: Callbook 1960 Fall Supplement needed to document original license issue year. Roy Callahan, 218 Goddard Row, Newport, RI 02840, 401-849-8572, wa2nza@arrl.net

Wanted: Hallicrafters SR400A, HA 20 VFO, McMurdo-Silver 801, 802 receiver, Eddystone receivers. John Hurst, KU6X, 2512 Euclid Crescent East, Upland, CA 91784. (909) 981-6759 or hurstjsj@gte.net

Antiques: Complete Boehme-Teletype Morse perforator/keyer system with AC/DC power supplies. Thordarson 500/1000 watt spark transformer. Best offer. W0AP 308 226-2427 mckinney@computer-concepts.com

Wanted: COLLINS KWM-380; Military gear: Lil LULU 6 meter Receiver/Transmitter; Drake DSR-1, 2, R7; Hallicrafters SX-88, SX-73, SX-115; RME-9. Steve, K6PFW, 848 N. Silverwood, Upland, Ca. 91786, Ph. 909-985-1062, E-mail: wsbarnes@eee.org

Wanted: 2-ea 807 sockets and one 2 meter converter. Home brew is FB. Send E-Mail to: wa6mvv@hurricane.net or PO Box 81 Tahuya, WA 98588. 73s, Terry

Book Wanted: "Genius at Riverhead" - Biography of H. Beverage. Also have 20-year collection of QCWA Journals. If interested call: Ed K2YAW at (631) 585-7448

Wanted: QSL cards from teens, 20's. These cards will be used for a printing project. MUST keep. Tony Musero K3UKW, 1609 So. Iseminger St., Philadelphia PA 19148. Ph: (215) 271-8898.

FREE!!! HAM and IBM disk catalog. High quality, newer, virus free programs. MOM 'N' POP'S SOFTWARE, PO Box 15003-QJ, Springhill, FL 34609-0111. Ph: (352) 688-9108. e-mail: momnpop@webcombo.net

WANTED: Telegraph Mill. Bill Welsh W6DDB, QCWA 9016, 45527 3rd Street East, Lancaster CA 93535-1802.

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-Thanx to Chapter 191, The Bulletin

Answers Quiz from AL on page 42



Please send classified ads to QCWA Journal, 672 Indian River Dr., Melbourne, FL 32935 to arrive no later than 1 month prior to publication date. Ads may also be faxed to 800-421-3279 or e-mailed to gwentz@digital.net

Kindly limit ads to 25 words. Words are counted as follows: WANTED, FOR SALE, FREE, etc count as 1 word; your address counts as 6 words.

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This form for use by all U.S. applicants
for membership in QCWA.
Effective 4/1/96

For Office Use Only

Membership No. _____

Date _____

First Licensed, Year _____

Deposit Record _____

Have you been previously enrolled in QCWA? _____

I, _____, _____
(Please Print Name Clearly) Present Callsign _____

having been licensed as an amateur 25 or more years ago and presently holding the call listed above (it is not necessary to have been licensed the entire 25 years) hereby apply for membership in QCWA. I understand that proof of the original date of licensing is required. My complete mailing address is:

Street Address _____ City _____ State _____ Zip _____
I will keep QCWA Headquarters advised of changes in my address and/or callsign. My first amateur license was issued _____ Other calls held _____
I wish to become affiliated with QCWA Chapter _____
Date of birth _____ Birthplace _____
Present occupation/business _____
If retired, what was major life work? _____
Other organizations you belong to _____

Your signature _____

SCHEDULE OF MEMBERSHIP FEES

Select one of the following plans

	Members	Family
QCWA dues for a one-year period	\$20	_____
QCWA dues for a two-year period	\$35	_____
QCWA dues for a three-year period	\$50	\$12 _____
QCWA life membership	\$300	\$90 _____
Payable in 3 equal installments of \$105 each, in a one-year period	\$315	\$105 _____ (3 payments of \$35)

Initial registration fee, all new members - \$3

Gold membership pins are available, your call engraved, no year tags. Check type of fastener.

Tie tack _____, Screw button _____, Safety pin _____, ----- \$10 each _____

Year tag pins - 25, 30, 35, 40, 45, 50, 55, 60, 65, 70 or 75 (tie-tac only) - \$15 each _____

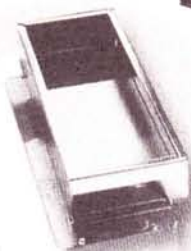
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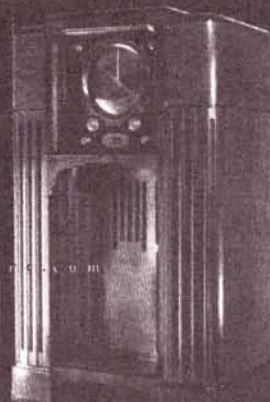
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FT-840

High Performance Compact HF Transceiver

- High Receiver Dynamic Range • Dual Band Stacking VFOs with Direct Digital Synthesis (DDS) • 100W PO • IF Shift • IF Noise Blanker • Digital Mode Interface • CW-Reverse feature • Adjustable Repeater CTCSS Tones • Optional (External) Automatic Antenna Tuner • 100 Memories.

FT-600

Multi-Purpose HF SSB Transceiver

Frequency Range: RX: 50 kHz - 30 MHz; TX: 160-10M • 100W PO • MIL-STD 810 Rating • Alphanumeric Omni-Glow™ LCD Display • Keypad Frequency Entry • Optional CW (500 Hz) and AM (6 kHz) filters available • Dual Watch • Front-mounted Speaker with High Audio Output • PC Programmable • 100 Memories (in 4 banks of 25).

FT-920

All-Mode HF/6m Transceiver

- High-Performance 33MIPS* DSP • HF + 50 MHz w/100 Watts-all Bands • MOSFET PA Finals • High Speed Auto Antenna Tuner (works on RX & TX) • Omni-Glow™ Dual Display • Twin VFO Knobs • FET RF Amplifier for High & Low Bands • Digital Voice Memory System • Quick Memory Bank (QMB) Frequency System • 127 Memories. *Million Instructions Per Second

FT-847

HF/50/144/430 MHz All Mode Transceiver DSP Filters--notch, NR and BPF • Built-in 6-Meter

- Voice Monitor • Separate Sub-Band Dial • Shuttle Jog Dial • Smart Search • Digital Meter • 19 Memories • 100W for HF/6-Meter; 50W 2-Meter/430 MHz • Crossband Full Duplex • Normal/Reverse Tracking • CTCSS and DCS Encode/Decode • Direct Keypad Frequency Entry • 1200/9600bps Packet-Ready



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